COULTER® STKS Analyzer
COULTER® STKS Analyzer with Reticulocyte Analysis
COULTER® STKS Analyzer with CD4 and CD8 Lymphocyte Analysis

DMS 3A Host Transmission Specifications for STKS

PN 4237290A (April 1996)

COULTER CORPORATION
Miami, Florida 33196

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REVISION STATUS

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This document applies to the latest software listed and higher revisions. When a subsequent software version changes information in this document, a new issue will be released.

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1.1 DOCUMENT SCOPE AND PURPOSE

This document describes the specification for communication and data transmission between a STKS DMS and a host computer.

1.2 INTENDED USE

This document is intended for use by software engineers needing to either maintain or modify the operation of the *STKS DMS Host Communication*.

This document will specify the DMS to host computer communication format protocols *1G1, 1G1+Retics, 1G1+Retics+Subsets, 2A* and *3A*. The specification of the host computer to DMS format protocol *Host Worklist* will also be described in this document.

2.1 GENERAL

The transmission specification consists of data link (low level) and presentation protocols (high level). Data link protocol provides the means of transmitting data without any regard to actual information. Presentation protocol describes the actual information and its format.

2.2 PROTOCOLS

Low Level Protocol

The *STKS DMS 3A* will support the Host Low Level Communication Protocol implemented by the *STKS DMS 1G1 and STKS DMS 2A*.

High Level Protocol

The *STKS DMS 3A* supports the *1G1*, *2A*, *3A*, *MAXM (1G1+RETICS)*, and *1G1+Retics+Subsets* Host High Level Communication Protocols. The format of the data transmission is determined by the Compatibility option selected on the Host Computer Definition screen. The Compatibility option is described in more under the heading Compatibility.

The *MAXM* protocol will be referred to as the 1G1+Retics protocol in this document.

Note: To satisfy the STKS DMS 3A host requirements the receiver MUST parse for all of the data. DO NOT ASSUME FIXED OFFSETS.

2.3 HARDWARE INTERFACE

The DMS is equipped with an auxiliary (AUX) connector on the back side that lets the system interface with a host computer via a Standard EIA-type 25-pin connector, and uses EIA Standard RS-232-C signals. This is a Data Terminal Equipment (DTE) configuration.

Connector Pinouts

The DMS/Host communications uses only the following signals:

P3 Pin No.	Signal Name	Flow Direction
2	Transmit Data	From DMS
3	Received Data	To DMS
4	Ready To Send (RTS)	From DMS
5	Clear To Send (CTS)	To DMS
6	Data Set Ready(DSR)	To DMS
7	Signal Ground	Reference
8	Carrier Detect	Reference
20	Data Terminal Ready (DTR)	From DMS
22	Ring Indicator	Reference

The DMS is the DTE, by RS232 standards, which explains the RTS/DTR pinouts. Whether the HOST is a DTE or DCE will determine its use of CTS/DSR or RTS/DTR. A DTE HOST requires the use of a NULL MODEM Cable.

Note: Pin number 5 CTS must be active for DMS to send any transmissions. If the host computer does not support the above hardware handshake lines it will be necessary to connect pin 4 to pin 5 and to connect pin 20 to pin 6.

2.4 HANDSHAKE

During a transmission, when in full handshake mode, host logically raises CTS to allow the DMS to send data and logically lowers CTS to prevent the DMS from sending data.

Note: If CTS is lowered to hold off the DMS host transmission, it must be raised again within the DMS timeout period. If CTS is not raised within the timeout period, the DMS transmission to the host will timeout and abort.

DMS (sender)	HOST (receiver)
	<-- CTS on (send some data)
send data ----->	
send data ----->	
send data ----->	
	<-- CTS off (stop sending data)
wait	
•	process received data
•	•
•	•
•	•
•	
	<-- CTS on (send more data)
send data ----->	
send data ----->	
- etc. -	

2.5 COMMUNICATION PARAMETERS

The DMS allows the following communications parameters on the Host Computer Definition screen to be configured by the user. These parameters include communications modes, as well as parameters enabling the transmission of graphic data.

Timeout

The time out value determines the amount of time the DMS will wait for a response from the host before retrying to send data to the host. If the Enable Spooler option is enabled the DMS will continue to transmit at the time out intervals until the host successfully receives the data. If the Enable Spooler option is not enabled the message will be aborted when the next available message is ready to be transmitted.

The time out value can be 1 to 9 seconds. The default value is 9 seconds.

Baud Rate

The following baud rates are supported: 110, 300, 1200, 2400, 4800, 9600, 19200

Note: The slowest recommended baud rate is 2400 for non-graphic transmissions and 9600 Baud for graphic transmissions.

Parity

Odd, Even, and None parity modes are supported. Odd parity is the default value.

Note: The DMS/Host communications only supports the 8 bit Data Bit mode. For Host systems that only support 7 bit data, the DMS should be configured for No Parity and the Host should be configured for Marked Parity for graphic transmissions.

Stop Bits

1 or 2 Stop Bits modes are supported. The default value is 2.

Handshake

If this option is set to 'Yes', the DMS looks for a handshake from the host computer. If this option is set to 'No', there is no handshaking between the DMS and the host computer. Refer to Handshake under heading 2.4 for more information on the handshake mode.

Block Size

The DMS/Host Communications support block sizes of 128 and 256 bytes. The default value is 256 bytes.

Graphics

If this option is set to 'Yes', the selected scatterplot(s) and histogram(s) on the F6-Graphics window will be transmitted to the host computer. If this option is set to 'No', scatterplot(s) and histogram(s) will not be sent to the host computer.

Table 1 lists the F6-Graphic options that can be set to 'Yes' or 'No' to enable or disable the graphics transmission for the corresponding test type. Also, listed in the table are the applicable format protocols, which allow the transmission of the corresponding graphic option. If the graphic option is available for the specific format it will be indicated with an 'X'.

Table 1. F6-GRAPHICS Options

Test Type	Graphic Options	Format Protocols				
		1G1	1G1+Retics	1G1+Retics+Subsets	2A	3A
CBC	RBC Histogram	X	X	X	X	X
	PLT Histogram	X	X	X	X	X
CBC/Diff	RBC Histogram	X	X	X	X	X
	PLT Histogram	X	X	X	X	X
	DF1 Scatterplot	X	X	X	X	X
	DF2 Scatterplot	X	X	X	X	X
	VCS Histograms	X	X	X	X	X
Retic	DF5 Scatterplot		X	X	X	X
	DF6 Scatterplot		X	X	X	X
	VCS Histograms		X	X	X	X
CD4	CD4 Scatterplot			X		X
	VCS Histograms			X		X
CD8	CD8 Scatterplot			X		X
	VCS Histograms			X		X

Compatibility

To determine which Host High Level Communication Protocol is used for data transmission, one of the following Compatiblity options must be selected:

1G1, 2A, 3A, MAXM (1G1 + Retics), 1G1+Retics+Subsets

Table 2 lists the compatibility options (format protocols) that are applicable to corresponding test types. If the transmission of the test type is available for the specific format it will be indicated with an 'X'.

Table 2. Compatibility Options

Test Type	Format Protocols				
	1G1	1G1+Retics	1G1+Retics+Subsets	2A	3A
CBC	X	X	X	X	X
CBC/Diff	X	X	X	X	X
Retics		X	X	X	X
CD4			X		X
CD8			X		X

Enable Spooler

If this option is set to 'Yes', the spooling function of the DMS is enabled. When enabled, each host transmission is spooled and kept on the spool until the Host acknowledges the transmission was successfully accepted. Refer to the heading Full Handshake Protocol for more details on the Enable Spooler option.

Replace Null by Sp

When this option is set to 'Yes', NULL (HEX. 0x00, DEC. 0) characters present in the transmission buffer will be replaced by SPACES (HEX. 0x20, DEC. 32).

PART. ASP./NO READ

When this option is set to 'Yes', samples with **PART. ASP.** and/or **NO READ** status will be transmitted to the host.

3.1 DATALINK

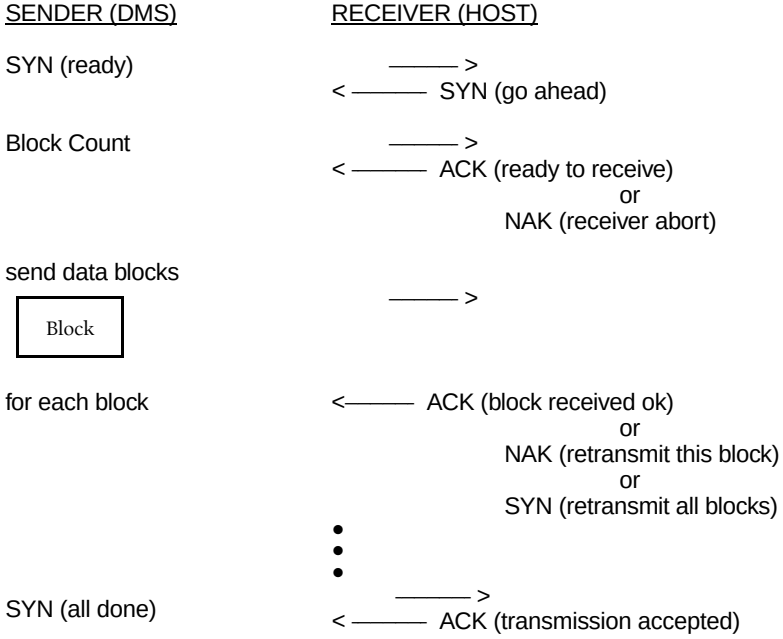
All transmitted bytes are ASCII characters. All numeric values are hexadecimal. Hence, for example, the number FF(hex) is represented by the two ASCII bytes "FF"(46H, 46H). The first two bytes of the transmission are the number of blocks to be sent, followed by transmission of data blocks (see format below).

The final block will be padded with ASCII spaces (20H) to fill a whole block.

The DMS supports a full handshake and a no handshake protocol.

Full Handshake Protocol

The DMS sends the following control characters plus data and expects the indicated host response:



Up to 255 blocks of data can be sent. The actual number of blocks sent is specified by the two byte ASCII Block Count.

If the host NAKs a data block, the block will be retransmitted. It is up to the host to determine how many times it will retry receiving a NAKed block before aborting.

A SYN sent by the Host at any time other than the initial "go ahead" will force the DMS to retransmit all data starting with the first block. This does not include the initial SYN and block count. It is up to the Host to determine under what conditions to transmit a SYN.

If the Enable Spooler option is selected, the DMS will continue to send the same message until the Host accepts (ACKs each block) the message.

Note: To abort a transmission when the Enable Spooler option is enabled, the host must ACK each block of the transmission and discard it locally.

If the Enable Spooler option is not selected, the DMS will only make one attempt at transmitting the message.

No Handshake Protocol

The No Handshake protocol ignores all hardware and software host responses. In addition, in the No Handshake mode the DMS does not send a SYN prior to transmitting the data.

Data Block Structure

Byte #		# of bytes
1	STX	1 byte
2	BLK NBR MS CHAR	1 byte
3	BLK NBR LS CHAR	1 byte
4 • • • 259 (131)	DATA BYTES • • •	256 (128) byte C R C
260 (132)	CRC MSB MS CHAR	1 byte
261 (133)	CRC MSB LS CHAR	1 byte
262 (134)	CRC LSB MS CHAR	1 byte
263 (135)	CRC LSB LS CHAR	1 byte
264 (136)	ETX	1 byte

Every data block will have either 128 or 256 bytes(whichever is chosen). If there is insufficient data to fill a block, it will be padded with space characters.

The algorithm used to calculate the CRC for each block is a modified CCITT CRC16. CRC is only calculated on the data bytes.

Appendix B details the algorithm and includes application notes for implementing the algorithm in both C and assembly language.

3.2 1G1, 1G1+RETICS, AND 1G1+RETICS+SUBSETS FORMAT PROTOCOLS

Message Structure

The data bytes of the transmission blocks, when collected together,exhibit the following high level format.

PREAMBLE	GROUP X_1	• • • •	GROUP X_n	POSTAMBLE

Preamble:

CR	LF	CR	LF	CR	LF	CR	LF	CR	LF	CR	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	CR	LF

The preamble marks the beginning of a message.

Group:

DC1	FIELD COUNT	CR	LF	FIELD 1	CR	LF	- - -	FIELD N	CR	LF

The DC1 (11H) marks the beginning of a Group.

Note: If no data is present for a Group, it will be transmitted with a field count of 00 as shown below.

If the Graphics option on the Host Computer Definition screen is set to 'No', no data including a field count of 00 will not be sent for any of the scatterplot and histogram groups.

DC1	0	0	CR	LF

Field Count:

FIELD COUNT defines the number of fields in a particular group. Each Group has a Field Count which identifies the number of fields contained within the Group. Valid field counts can be from 0 - 255. The field count uses two characters to give the ASCII representation of the hexadecimal value.

MS CHAR	LS CHAR	Two Byte ASCII representation of Hex value between 00 and FF (0 to 255)

Fields:

FIELD defines a field within a group. Each Group is made up of variable length fields which may or may not be padded with SP (20H), or HT (09H) characters. A field may have a variable length TAG preceding the data separated with one or more SP (20H), or HT (09H) characters. The data portion of a field will only contain ASCII characters in the range of 20H to 7EH inclusive.

Fields are separated with a CR (0DH) and a LF (0AH) character.

Note: A field's position within a Group must not be used to identify it. The CR/LF should be used to find fields and the Tag is used to identify it.

The following notations and abbreviations are used to describe the fields:

SEP - one or more SP (20H), or HT (09H) characters.

☐ - SP(20H)

A - Alpha characters (a..z and A..Z and space) or (61H..7AH and 41H..5AH and 20H)

N - Numeric characters (0..9, +, - and .) or (30H..39H, 2BH, 2DH and 2EH)

X - Printable characters (20H..7EH)

Postamble:

CR	LF	CR	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	CR	LF

The postamble marks the end of the current message.

Group Definition

Table 3 contains the group names and the order in which the groups will appear in the transmission message. Also, listed in the table are the applicable test types and the format(s), which allow the transmission of the corresponding group. If the group is available for the specific format it will be indicated with an 'X'.

Abbreviations listed below are used to describe the corresponding test types in the following table:

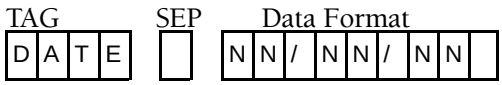
C	CBC
CD	CBC/DIFF
R	RETICS
4	CD4
8	CD8

Table 3. 1G1, 1G1+Retics, 1G1+Retics+Subsets Group Definition and Order

			Format Protocols		
Group Name	**Group Order**	**Test Type**	**1G1**	**1G1+Retics**	**1G1+Retics+Subsets**
General Information	1	C,CD,R, 4,8	X	X	X
CBC Parameters	2	C,CD	X	X	X
Diff Count Parameters	3	CD	X	X	X
Diff Percent Parameters	4	CD	X	X	X
Comments	5	C,CD,R, 4,8	X	X	X
Flags	6	C,CD,R, 4,8	X	X	X
Demographics	7	C,CD,R, 4,8	X	X	X
DF1 Scatterplot	8	CD	X	X	X
DF2 Scatterplot	9	CD	X	X	X
Diff (VCS) Histogram	10	CD	X	X	X
RBC Histogram	11	C,CD	X	X	X
PLT Histogram	12	C,CD	X	X	X
Retic Parameters	13	R		X	X
DF5 LS Scatterplot	14	R		X	X
DF6 OP Scatterplot	15	R		X	X
Retic (VCS) Histogram	16	R		X	X
CD4 Parameters	17	4			X
CD4 Scatterplot	18	4			X
CD4 (VCS) Histogram	19	4			X
CD8 Parameters	20	8			X
CD8 Scatterplot	21	8			X
CD8 (VCS) Histogram	22	8			X

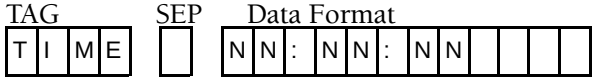
General Information Group

Date Field:



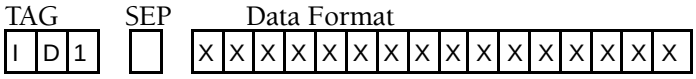
Data length: 9 bytes.
Data value: month/day/year.

Time Field:



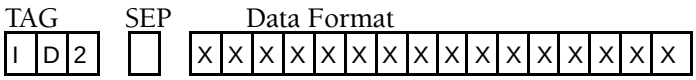
Data length: 12 bytes
Data value: hours:minutes:seconds.

ID #1 Field:



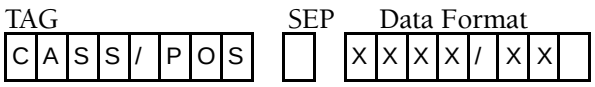
Data length: 16 bytes

ID #2 Field:



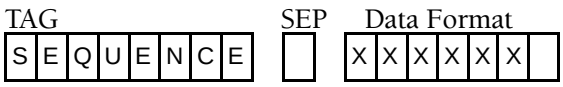
Data length: 16 bytes

Cassette/Position Field:



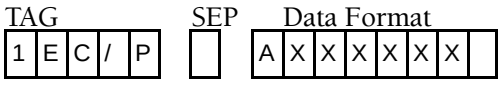
Data length: 8 bytes
Data value: cassette number/cassette position.

Sequence Number Field:



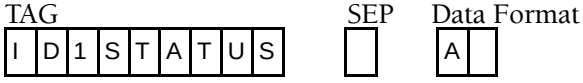
Data length: 7 bytes

1E Cassette/Position Field:



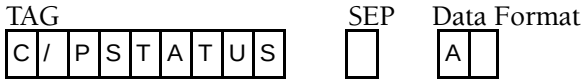
Data length: 8 bytes
Data values for 'A':
'S' = secondary aspiration mode
' ' = primary aspiration mode

ID #1 Status Field:



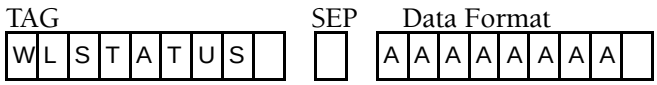
Data length: 2 bytes
Data values for 'A':
'P' = positive ID
'E' = edited ID
' ' = not edited and not positive ID.

Cassette/Position Status Field:



Data length: 2 bytes
Data values for 'A':
'P' = positive ID
'E' = edited ID
' ' = not edited and not positive ID.

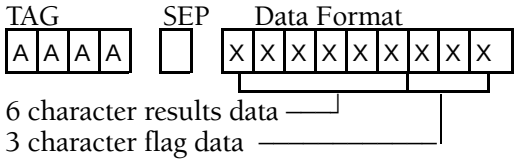
Worklist Status Field:



Data length: 9 bytes
Data values:
'GOOD ' = OK
'PART ASP' = partial aspiration
'NO READ ' = barcode not read
'NO MATCH' = match not found in worklist
'ID MISMA' = ID mismatch

CBC Parameters Group

Each field in the CBC Parameters Group will have the following format:



Data length: 9 bytes

Tags:
'WBC '
'RBC '
'HGB '
'HCT '
'MCV '
'MCH '
'MCHC '
'RDW '
'PLT '
'PCT '
'MPV '
'PDW '

Tag length: 4 bytes.

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

'-----' = total voteout.
'+++++' = count exceeds maximum.
'.....' = incomplete computation.

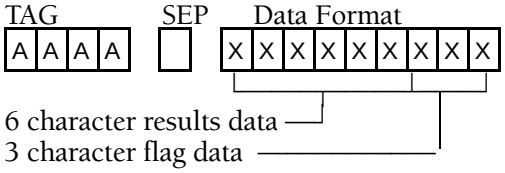
Flag Data:

The three flag data characters can contain one or a combination of the following:

'*R' - parameter affected by other parameter
'R' - review parameter
'H' - exceeds laboratory set patient high action limit
'L' - Below laboratory set patient low action limit
'E' - edited result
' ' - no flag

DIFF Count Parameters Group

Each field in the DIFF Count Parameters Group will have the following format:



Data length: 9 bytes

Tags:
'LY# '
'MO# '
'NE# '
'EO# '
'BA# '

Tag length: 4 bytes.

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), hen it contains one of the following:

':::::' = flowcell clogged.
'.....' = incomplete computation.

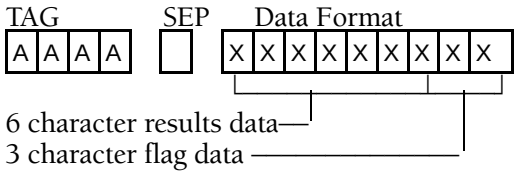
Flag Data:

The three flag data characters can contain one or a combination of the following:

'R' - review parameter
'H' - exceeds laboratory set patient high action limit
'L' - below laboratory set patient low action limit
'E' - edited result
' ' - no flag

DIFF Percent Parameters Group

Each field in the DIFF Percent Parameters Group will have the following format:



Data length: 9 bytes

Tags:
'LY% '
'MO% '
'NE% '
'EO% '
'BA% '

Tag Length: 4 bytes.

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

':::::' = flowcell clogged.
'.....' = incomplete computation.
'?????' = invalid analyzed data.

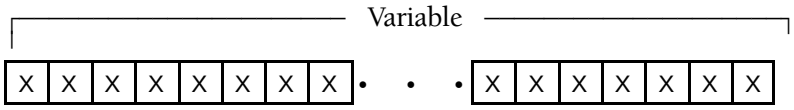
Flag Data:

The three flag data characters can contain one or a combination of the following:

'R' - review parameter
'H' - exceeds laboratory set patient high action limit
'L' - below laboratory set patient low action limit
'E' - edited result
' ' - no flag

Comments Group

Each comment field in the Comment Group will have the following format:

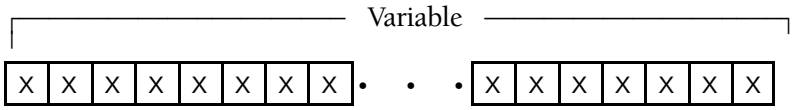


Data length: 64 bytes

The Comment Group can have a variable number of fields, which consist of a variable number of bytes. No tags are associated with a comment field. Each comment field will consist of an ASCII string.

Flag Group

Each flag field in the Flag Group will have the following format:



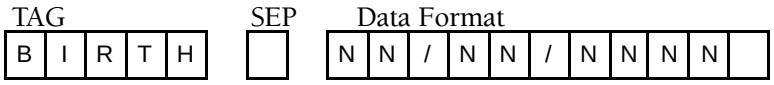
Data length: Variable

The Flag Group field can have a variable number of flags, which consist of a variable number of bytes. No tags are associated with a flag. Each flag will consist of an identifying ASCII string. All flags are listed in Appendix C Flags.

Demographics Group

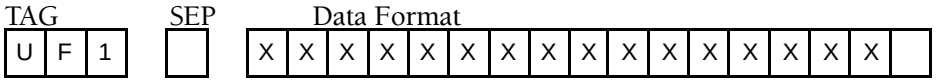
Each field in the Demographics Group will have the following format:

Date of Birth Field:



Data length: 11 bytes
Data value: Birth field is month/day/year.

User Field #1:



Data length: 17 bytes

User Field #2:

TAG			SEP	Data Format																
U	F	2		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Data length: 17 bytes

User Field #3:

TAG			SEP	Data Format																
U	F	3		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Data length: 17 bytes

Sex Field:

TAG			SEP	Data Format	
S	E	X		A	

Data length: 2 bytes
Data value for 'A':
'F' - Female
'M' - Male
'U' - Unknown
'O' - Other
' ' - Not available

Location Field:

TAG								SEP
L	O	C	A	T	I	O	N	

Data Format

X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Data length: 17 bytes

Physician Field:

TAG									SEP
P	H	Y	S	I	C	I	A	N	

Data Format

X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Data length: 23 bytes

User Date Field:

TAG					SEP	Data Format							
U	D	A	T	E		N	N	/	N	N	/	N	N	

Data length: 9 bytes

User Time Field:

TAG					SEP	Data Format								
U	T	I	M	E		N	N	/	N	N	/	N	N	

Data length: 6 bytes

DF1 Scatterplot Group

Each field in the DF1 Scatterplot Group will have the following format:

Valley 1 Field:

TAG				SEP	Data Format					
V	A	L	1		N	N	N	N	N	

Data length: 6 bytes

Valley 2 Field:

TAG				SEP	Data Format					
V	A	L	2		N	N	N	N	N	

Data length: 6 bytes

Valley 3 Field:

TAG				SEP	Data Format					
V	A	L	3		N	N	N	N	N	

Data length: 6 bytes

Valley 4 Field:

TAG				SEP	Data Format					
V	A	L	4		N	N	N	N	N	

Data length: 6 bytes

Valley 5 Field:

TAG				SEP	Data Format					
V	A	L	6		N	N	N	N	N	

Data length: 6 bytes

DF1 Scatterplot Field:

TAG				SEP	Data Format										
D	I	F	1		N	N	N	•	•	•	N	N	N	N	N	N	

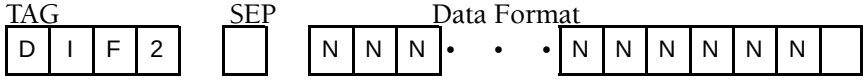
Data length: 4097 bytes

The DF1 scatterplot data is transmitted as a 4096 byte ASCII array. See Appendix D for details on constructing the scatterplot.

DF2 Scatterplot Group

Each field in the DF2 Scatterplot Group will have the following format:

DF2 Scatterplot Field:



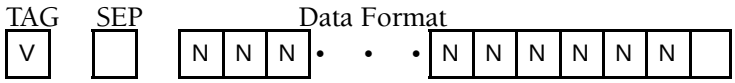
Data length: 4097 bytes

The DF2 scatterplot data is transmitted as a 4096 byte ASCII array. See Appendix D for details on constructing the scatterplot.

Histogram Group

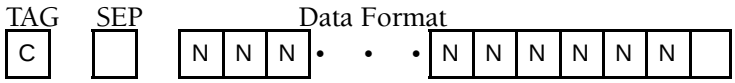
Each field in the DIFF Histogram Group will have the following format:

V Histogram Field:



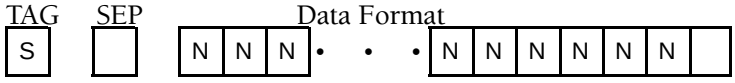
Data length: 513 bytes

C Histogram Field:



Data length: 513 bytes

S Histogram Field:

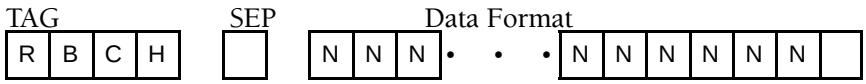


Data length: 513 bytes

RBC Histogram Group

Each field in the RBC Histogram Group will have the following format:

RBC Histogram Field:



Data length: 513 bytes

PLT Histogram Group

Each field in the PLT Histogram Group will have the following format:

PLT Histogram Field:

TAG	SEP	Data Format
P L T H		N N N • • • N N N N N N

Data length: 257 bytes

PLT Fit Histogram Field:

TAG	SEP	Data Format
P L T F		N N N • • • N N N N N N

Data length: 513 bytes

RETICS Parameters Group

Each field in the RETICS Parameters Group will have the following format:

Retic Date Field:

TAG	SEP	Data Format
R E T D A T E		N N / N N / N N

Data length: 9 bytes
Data value: month/day/year.

Retic Time Field:

TAG	SEP	Data Format
R E T T I M E		N N : N N : N N

Data length: 12 bytes
Data value: hours:minutes:seconds.

Retic ID Field:

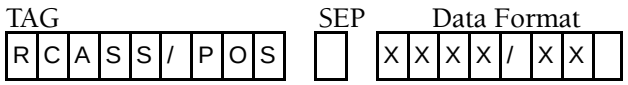
TAG	SEP	Data Format
R I D		X X X X X X X X X X X X X X X X

Data length: 16 bytes

Note: If the *MAXM (1G1+Retics)* compatibility option is selected, the sample must have a Retic ID (RID) or the following message will be displayed:

"No RETIC ID1, host transmission aborted."

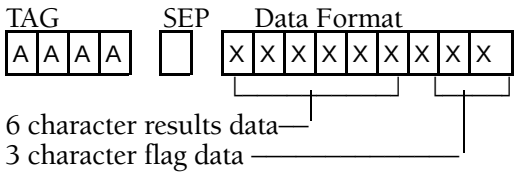
Retic Cassette/Position Field:



Data length: 8 bytes
Data value: CASS/POS output is cassette number/cassette position.

Note: This field will be transmitted only if *1G1+Retics+Subsets* compatibility option is selected.

Retic Parameter Results Field:



Data length: 9 bytes

Tags:
'**RET%**'
'**RET#**'
'**MRV** '
'**MI** '

Tag length: 4 bytes

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

':::::' = flowcell clogged.
'.....' = incomplete computation.
'?????' = invalid analyzed data.
'+++++' = exceeds maximum display limit.

Flag Data:

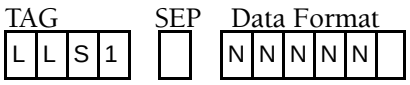
The three flag data characters can contain one or a combination of the following:

'R' - review parameter
'H' - exceeds laboratory set patient high action limit
'L' - below laboratory set patient low action limit
'+' - exceeds parameter reportable range
'E' - edited result
'e' - calculated result from edited value
' ' - no flag

DF5 LS Scatterplot Group

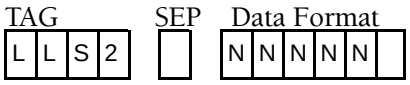
Each field in the DF5 LS Scatterplot Group will have the following format:

LLS_X1 Valley:



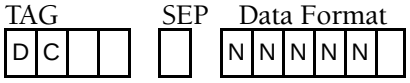
Data length: 6 bytes

LLS_X2 Valley:



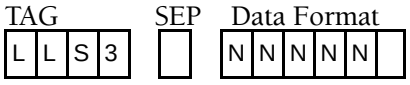
Data length: 6 bytes

DC Valley:



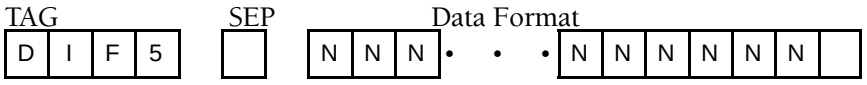
Data length: 6 bytes

LLS Valley:



Data length: 6 bytes

DF5 LS Scatterplot Field:



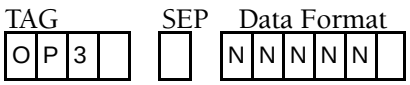
Data length: 4097 bytes

The DF5 scatterplot data is transmitted as a 4096 byte ASCII array. See Appendix E for details on constructing the scatterplot.

DF6 OP Scatterplot Group

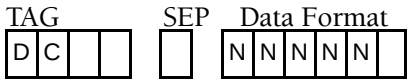
Each field in the DF1 Scatterplot Group will have the following format:

OP3 Valley:



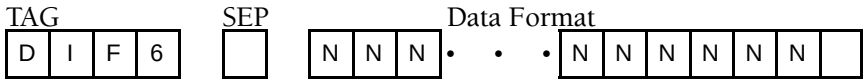
Data length: 6 bytes

DC Valley:



Data length: 6 bytes

DF6 Scatterplot Field:



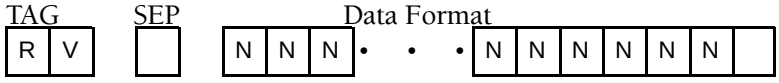
Data length: 4097 bytes

The DF6 scatterplot data is transmitted as a 4096 byte ASCII array. See Appendix E for details on constructing the scatterplot.

Retic Histogram Group

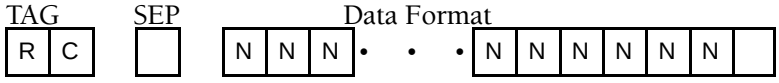
Each field in the Retic Histogram Group will have the following format:

Retic V Histogram Field:



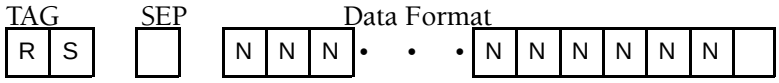
Data length: 513 bytes

Retic C Histogram Field:



Data length: 513 bytes

Retic S Histogram Field:

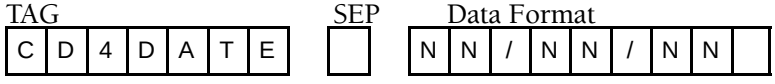


Data length: 513 bytes

CD4 Parameters Group

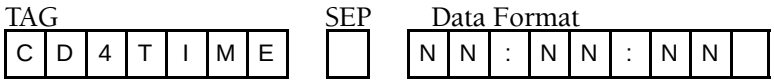
Each field in the CD4 Parameters Group will have the following format:

CD4 Date Field:



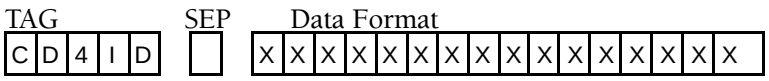
Data length: 9 bytes
Data value: month/day/year.

CD4 Time Field:



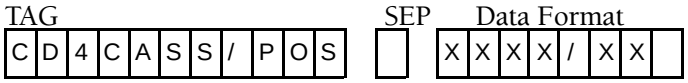
Data length: 12 bytes
Data value: hours:minutes:seconds.

CD4 ID Field:



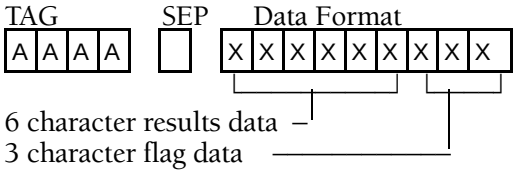
Data length: 16 bytes

CD4 Cassette/Position Field:



Data length: 8 bytes
Data value: cassette number/cassette position.

CD4 Parameter Results Field:



Data length: 9 bytes

Tags:
'**CD4%**'
'**CD4#**'

Tag length: 4 bytes.

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

':::::' = flowcell clogged.
'.....' = incomplete computation.
'?????' = invalid analyzed data.
'+++++' = exceeds maximum display limit.

Flag Data:

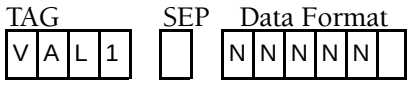
The three flag data characters can contain one or a combination of the following:

'R' - review parameter
'H' - exceeds laboratory set patient high action limit
'L' - below laboratory set patient low action limit
'+' - exceeds parameter reportable range
'E' - edited result
'e' - calculated result from edited value
' ' - no flag

CD4 Scatterplot Group

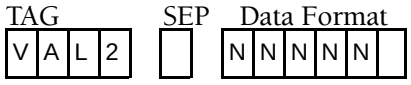
Each field in the CD4 Scatterplot Group will have the following format:

Valley 1:



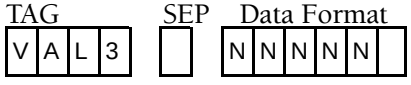
Data length: 6 bytes

Valley 2:



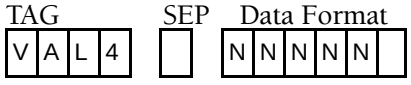
Data length: 6 bytes

Valley 3:



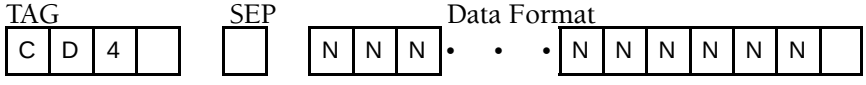
Data length: 6 bytes

Valley 4:



Data length: 6 bytes

CD4 Scatterplot Field:



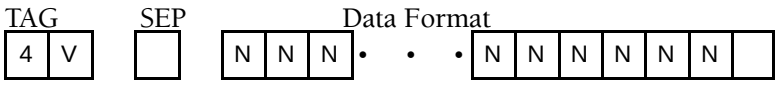
Data length: 4097 bytes

The CD4 scatterplot data is transmitted as a 4096 byte ASCII array. See Appendix F for details on constructing the scatterplot.

CD4 Histogram Group

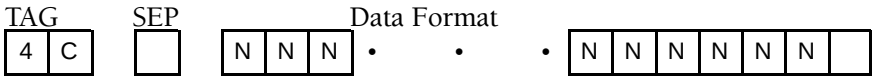
Each field in the CD4 Histogram Group will have the following format:

CD4 V Histogram Field:



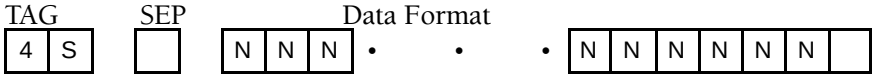
Data length: 513 bytes

CD4 C Histogram Field:



Data length: 513 bytes

CD4 S Histogram Field:

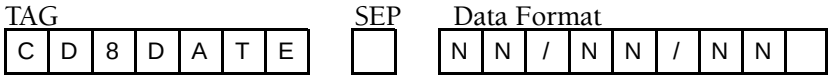


Data length: 513 bytes

CD8 Parameters Group

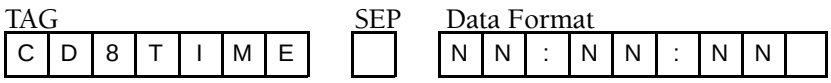
Each field in the CD8 Parameters Group will have the following format:

CD8 Date Field:



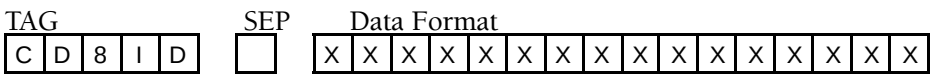
Data length: 9 bytes
Data value: month/day/year.

CD8 Time Field:



Data length: 12 bytes
Data value: hours:minutes:seconds.

CD8 ID Field:



Data length: 16 bytes

CD8 Cassette/Position Field:

TAG											SEP	Data Format								
C	D	8	C	A	S	S	/	P	O	S		X	X	X	X	/	X	X	

Data length: 8 bytes
Data value: cassette number/cassette position.

CD8 Parameter Results Field:

TAG				SEP	Data Format									
A	A	A	A		X	X	X	X	X	X	X	X	X

6 character results data
3 character flag data

Data length: 9 bytes

Tags:
'**CD8%**'
'**CD8#**'
'**4:8**

Tag length: 4 bytes.

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

':::::' = flowcell clogged.
'.....' = incomplete computation.
'?????' = invalid analyzed data.
'+++++' = exceeds maximum display limit.

Flag Data:

The three flag data characters can contain one or a combination of the following:

'R' - review parameter
'H' - exceeds laboratory set patient high action limit
'L' - below laboratory set patient low action limit
'+' - exceeds parameter reportable range
'E' - edited result
'e' - calculated result from edited value
' ' - no flag

CD8 Scatterplot Group

Each field in the CD8 Scatterplot Group will have the following format:

Valley 1:

TAG				SEP	Data Format					
V	A	L	1		N	N	N	N	N	

Data length: 6 bytes

Valley 2:

TAG				SEP	Data Format					
V	A	L	2		N	N	N	N	N	

Data length: 6 bytes

Valley 3:

TAG				SEP	Data Format					
V	A	L	3		N	N	N	N	N	

Data length: 6 bytes

Valley 4:

TAG				SEP	Data Format					
V	A	L	4		N	N	N	N	N	

Data length: 6 bytes

CD8 Scatterplot Field:

TAG				SEP	Data Format								
C	D	8			N	N	N	• • •	N	N	N	N	N	N	

Data length: 4097 bytes

The CD8 scatterplot data is transmitted as a 4096 byte ASCII array. See Appendix F for details on constructing the scatterplot.

CD8 Histogram Group

Each field in the CD8 Histogram Group will have the following format:

CD8 V Histogram Field:

TAG		SEP	Data Format									
8	V		N	N	N	• • •	N	N	N	N	N	N	

Data length: 513 bytes

CD8 C Histogram Field:

TAG		SEP	Data Format											
8	C		N	N	N	• • •	N	N	N	N	N	N		

Data length: 513 bytes

CD8 S Histogram Field:

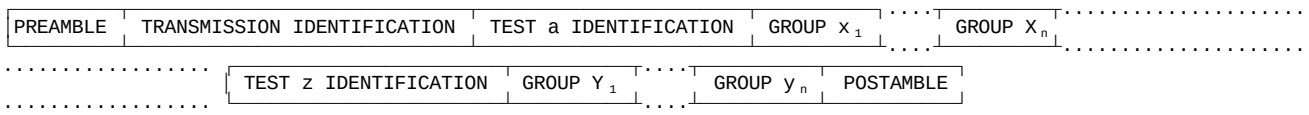
TAG		SEP	Data Format											
8	S		N	N	N	• • •	N	N	N	N	N	N		

Data length: 513 bytes

3.3 2A and 3A Format Protocols

Message Structure

The data bytes of the 2A and 3A transmission blocks, when collected together,exhibit the following high level format.



Preamble:

CR	LF	CR	LF	CR	LF	CR	LF	CR	LF	CR	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	CR	LF

The preamble marks the beginning of a message.

Transmission Identification

S	TEST TYPE COUNT	CR	LF	TEST TYPE 1	CR	LF	- - -	TEST TYPE N	CR	LF

The ASCII character "S" marks the beginning of the transmission.

Test Type Count

TEST TYPE COUNT defines the number of tests that will be transmitted in this particular transmission, not all Test Types are sent in all transmissions. Valid test type count can be from 0 - 255. The test type count uses two characters to give the ASCII representation of the hexadecimal value.

MS CHAR	LS CHAR

Two Byte ASCII representation of Hex value between 00 and FF (0 to 255)

Test Type:

Each TEST TYPE listed below is identified by the order in which it appears after the preamble. The test types will never be transmitted out of order.

The Tests types are up to 32 characters long. Available tests/controls are as follows:

TEST	Test Type
CBC	"CBC"
DIFF	"DIFF"
RETICS	"RETIC"
CD4	"CD4"
CD8	"CD8"
5C Control	"5CC"
4C® Control	"4CC"
Retic Control	"RETICC"
Latex Control	"LATEXC"
CD4 Control	"CD4C"
CD8 Control	"CD8C"

Test Identification

T	TEST TYPE	C R	L F	GROUP COUNT	C R	L F

The ASCII character "T" marks the beginning of a test identification.

For a description of the TEST TYPE see above heading Test Type.

Note: When there is no data for a Group, the Group will not be sent.

Group Count

GROUP COUNT defines the number of groups of data in this particular TEST TYPE. Valid group counts can be from 0 - 255. The group count uses two characters to give the ASCII representation of the hexadecimal value.

MS CHAR	LS CHAR

Two Byte ASCII representation of Hex value between 00 and FF (0 to 255)

Group

G	GROUP NUMBER	C R	L F	FIELD COUNT	C R	L F	- - -	FIELD N	C R	L F

The ASCII character "G" marks the beginning of a group.

Group Number

GROUP NUMBER defines the group number contained within the group identifier. Valid group number can be from 0 - 255. The group number uses two characters to give the ASCII representation of the hexadecimal value.

MS CHAR	LS CHAR	Two Byte ASCII representation of Hex value between 00 and FF (0 to 255)

Field Count

FIELD COUNT defines the number of fields in a particular group, see field count. Valid field counts can be from 0 - 255. The field count uses two characters to give the ASCII representation of the hexadecimal value.

MS CHAR	LS CHAR	Two Byte ASCII representation of Hex value between 00 and FF (0 to 255)

Fields

FIELD defines a field within a group. A field may have a variable length TAG preceding the data separated with one or more SP (20H), or HT (09H) characters. The data portion of a field will only contain ASCII characters in the range of 20H to 7EH inclusive.

Note: A field's position within a Group must not be used to identify it. The CR/LF should be used to find fields and the Tag is used to identify it.

Appendix A tabulates the valid ASCII characters.

Fields are separated with a CR (0DH) and a LF (0AH) character.

The following notations and abbreviations are used to describe the fields:

SEP - one or more SP (20H), or HT (09H) characters.

☐ - SP(20H)

A - Alpha characters (a..z, A..Z and space) or (61H..7AH, 41H..5AH, and 20H)

N - Numeric characters (0..9, + -, and .) or (30H..39H, 2BH, 2DH, and 2EH)

X - Printable characters (20H..7EH)

Postamble:

CR	LF	CR	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CR	LF

The postamble marks the end of the current message.

Group Definition

Table 4 contains the group names and their corresponding group numbers. Also, listed in the table are the applicable test types and the format(s), which allow the transmission of the corresponding group. If the group is available for the specific format it will be indicated with an 'X'.

Abbreviations listed below are used to describe the corresponding test types in the following table:

C CBC
C DCBC/DIFF
R RETICS
4 CD4
8 CD8
C_x 4C CONTROL
D_x 5C CONTROL
R_x RETIC CONTROL
L LATEX CONTROL
4_x CD4 CONTROL
8_x CD8 CONTROL

Note: '+' indicates that the group information will not be repeated for each test type.

Table 4. 2A and 3A Group Definition

Group Name	Group Number	Test Type	Format Protocol	
			2A	3A
General Information	1	C,CD,R, 4,8	X	X
CBC Parameters	2	C,CD	X	X
Diff Count Parameters	3	CD	X	X
Diff Percent Parameters	4	CD	X	X
Comments+	5	C,CD,R, 4,8	X	X
Definitive Flags+	6	C,CD,R, 4,8	X	X
Suspect Flags+	7	C,CD,R, 4,8	X	X
Conditional Flags+	8	C,CD,R, 4,8	X	X
Other Flags+	9	C,CD,R, 4,8	X	X
Demographics+	10	C,CD,R, 4,8	X	X
DF1 Scatterplot	11	CD	X	X
DF2 Scatterplot	12	CD	X	X
Diff (VCS) Histogram	13	CD	X	X
RBC Histogram	14	C,CD	X	X
PLT Histogram	15	C,CD	X	X
Retic Parameters	16	R	X	X
DF5 LS Scatterplot	17	R	X	X
DF6 OP Scatterplot	18	R	X	X
Retic (VCS) Histogram	19	R	X	X

Table 4. 2A and 3A Group Definition

Group Name	Group Number	Test Type	Format Protocols	
			2A	3A
CD4 Parameters	20	4		X
CD4 Scatterplot	21	4		X
CD4 (VCS) Histogram	22	4		X
CD8 Parameters	23	8		X
CD8 Scatterplot	24	8		X
CD8 (VCS) Histogram	25	8		X
DIFF Latex Parameters	31	L	X	X
Retic Latex Parameters	32	L	X	X
Subset Latex Parameters	33	L	X	X
Control Information	34	C_x,CD_x,R_x, L,4_x,8_x	X	X
Control CBC Parameters	35	C_x,CD_x	X	X
Control DIFF Count Parameters	36	CD_x	X	X
Control DIFF Percent Parameters	37	CD_x	X	X
Control RETICS Parameters	38	R_x	X	X
Control CD4 Parameters	41	4_x		X
Control CD8 Parameters	42	8_x		X

General Information Group 1

Date Field:

TAG				SEP	Data Format							
D	A	T	E		N	N	/	N	N	/	N	N

Data length: 8 bytes
Data value: month/day/year.

Time Field:

TAG				SEP	Data Format							
T	I	M	E		N	N	:	N	N	:	N	N

Data length: 8 bytes
Data value: hours:minutes:seconds.

ID #1 Field:

TAG			SEP	Data Format													
I	D	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Data length: 16 bytes

Pre Assigned ID #1 Field:

TAG	SEP	Data Format
P I D 1		X X X X X X X X X X X X X X X X

Data length: 16 bytes

Cassette/Position Field:

TAG	SEP	Data Format
C A S S P O S		A X X X X X X

Data length: 7 bytes
Data value: cassette number/cassette position.
Data values for 'A':
'S'-secondary aspiration mode
'P'-Primary aspiration mode

Pre-Assigned Cassette/Position Field:

TAG	SEP	Data Format
P C A S S P O S		X X X X X X

Data length: 6 bytes
Data value: cassette number/cassette position.

ID #1 Status Field:

TAG	SEP	Data Format
I D 1 S T A T U S		A

Data length: 1 byte
Data values for 'A':
'P' - positive id
'E' - edited id

Cassette/Position Status Field:

TAG	SEP	Data Format
C / P S T A T U S		A

Data length: 1 byte
Data values:
'P' - positive id
'E' - edited id

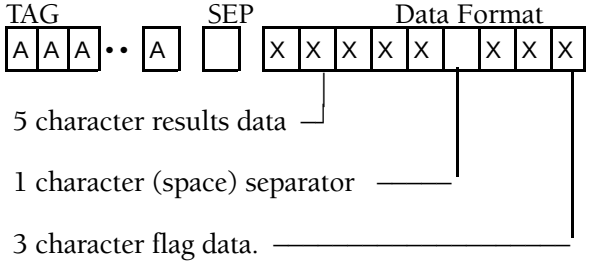
Sample Status:

TAG	SEP	Data Format
S A S T A T U S		A A A A A A A A

Data length: 8 bytes
Data values:
'PART ASP' - partial aspiration
'NO READ ' - barcode not read
'NO MATCH' - match not found in worklist
'ID MISMATCH' - positive id did not match.

CBC Parameters Group 2

Each field in the CBC Parameters Group will have the following format:



Data length: 9 bytes

Tags:

'WBC'
'RBC'
'HGB'
'HCT'
'MCV'
'MCH'
'MCHC'
'RDW'
'PLT'
'PCT'
'MPV'
'PDW'

Tag length: variable

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

'-----' = total voteout.
'+++++' = count exceeds maximum.
'.....' = incomplete computation.

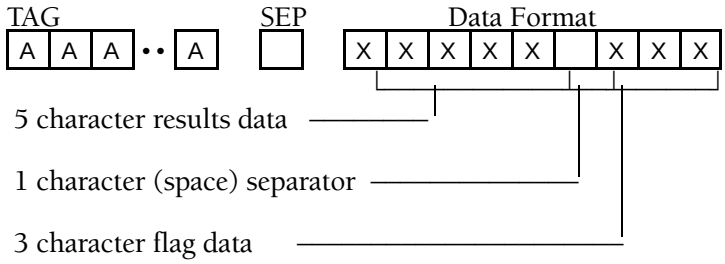
Flag Data:

The three flag data characters can contain one or a combination of the following:

'*R' - parameter affected by other parameter
'R' - review parameter
'H' - exceeds laboratory set patient high action limit
'L' - below laboratory set patient low action limit
'E' - edited result
' ' - no flag

DIFF Count Parameters Group 3

Each field in the DIFF Count Parameters Group will have the following format:



Data length: 9 bytes

Tags:
'LY#'
'MO#'
'NE#'
'EO#'
'BA#'

Tag length: variable.

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

'.....' = incomplete computation.
':::::' = flowcell clogged.

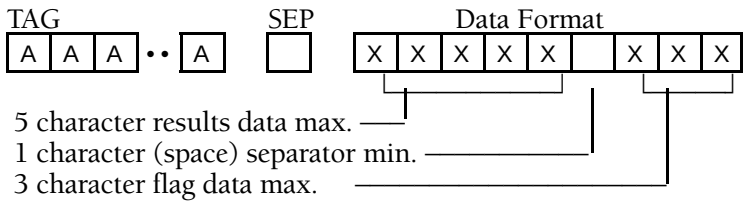
Flag Data:

The three flag data characters can contain one or a combination of the following:

'R' - review parameter
'H' - exceeds laboratory set patient high action limit
'L' - below laboratory set patient low action limit
'E' - edited result
' ' - no flag

DIFF Percent Parameters Group 4

Each field in the DIFF Percent Parameters Group will have the following format:


TAG
SEP
Data Format
A A A • • A
X X X X X X X X
5 character results data max.
1 character (space) separator min.
3 character flag data max.

Data length: 9 bytes

Tags:
'LY%'
'MO%'
'NE%'
'EO%'
'BA%'

Tag length: variable

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

'.....' = incomplete computation.
'?????' = invalid analyzed data.
':::::' = flowcell clogged.

Flag Data:

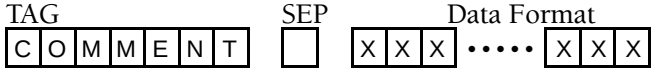
The three flag data characters can contain one or a combination of the following:

'R' - review parameter
'H' - exceeds laboratory set patient high action limit
'L' - below laboratory set patient low action limit
'E' - edited result
' ' - no flag

Comments Group 5

Note: This group will be transmitted with the first test only.

Comment Field:



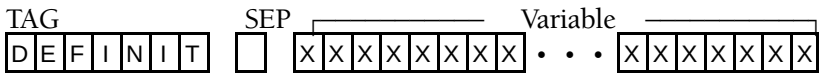
Data length: 64 bytes

The Comment Group can have a variable number of fields, which consist of a variable number of bytes. Each comment field will consist of an ASCII string.

Definitive Flags Group 6

Note: This group will be transmitted with the first test only.

Definitive Flag Field:



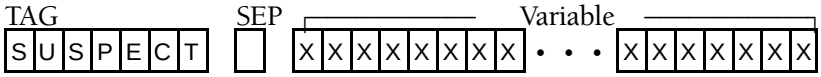
Data length: Variable

The Definitive Flag Group field can have a variable number of flags, which consist of a variable number of bytes. Refer to Appendix C Flags for possible Definitive flag values.

Suspect Flags Group 7

Note: This group will be transmitted with the first test only.

Suspect Flag Field:



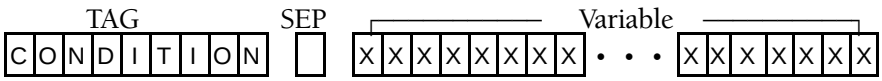
Data length: Variable

The Suspect Flag Group field can have a variable number of flags, which consist of a variable number of bytes. Refer to Appendix C Flags for possible Suspect flag values.

Conditional Flags Group 8

Note: This group will be transmitted with the first test only.

Conditional Flag Field:



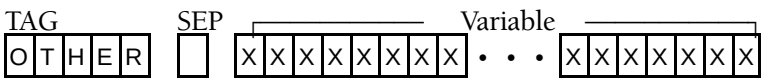
Data length: Variable

The Conditional Flag Group field can have a variable number of flags, which consist of a variable number of bytes. Refer to Appendix C Flags for possible Conditional flag values.

Other Flags Group 9

Note: This group will be transmitted with the first test only.

Other Flag Field:



Data length: Variable

The Other Flag Group field can have a variable number of flags, which consist of a variable number of bytes. Refer to Appendix C Flags for possible Other flag values.

Demographics Group 10

Note: This group will be transmitted with the first test only.

Date of Birth Field:

TAG	SEP	Data Format
B I R T H		N N / N N / N N N N

Data length: 10 bytes
Data value: month/day/year.

User Field #1:

TAG	SEP	Data Format
U F 1		X X X X X X X X X X X X X X X X

Data length: 16 bytes

User Field #2:

TAG	SEP	Data Format
U F 2		X X X X X X X X X X X X X X X X

Data length: 16 bytes

User Field #3:

TAG	SEP	Data Format
U F 3		X X X X X X X X X X X X X X X X

Data length: 16 bytes

Sex Field:

TAG	SEP	Data Format
S E X		A

Data length: 1 byte

Data value:
'M' - Male
'F' - Female
'U' - Unknown
'O' - Other

Location Field:

TAG	SEP	Data Format
L O C A T I O N		X X X X X X X X X X X X X X X X

Data length: 16 bytes

Physician Field:

TAG	SEP
PHYSICIAN	

Data Format

X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Data length: 22 bytes

User Entry Date Field:

TAG	SEP	Data Format
ED		NN/NN/NN

Data length: 8 bytes

User Entry Time Field:

TAG	SEP	Data Format
ET		NN:NN

Data length: 5 bytes

ID #2 Field:

TAG	SEP	Data Format
ID2		XXXXXXXXXXXXXXXX

Data length: 16 bytes

Sequence Number:

TAG	SEP	Data Format
SEQUENCE		XXXXXX

Data length: 6 bytes

Profile Field:

TAG	SEP	Data Format
PF		N

Data length: 1 byte
Data value: '1' through '9'. Note: If '0' this field will not be transmitted.

DF1 Scatterplot Group 11

Valley 1 Field:

TAG	SEP	Data Format
VAL1		NNN

Data length: 3 bytes

Valley 2 Field:

TAG	SEP	Data Format
V A L 2		N N N

Data length: 3 bytes

Valley 3 Field:

TAG	SEP	Data Format
V A L 3		N N N

Data length: 3 bytes

Valley 4 Field:

TAG	SEP	Data Format
V A L 4		N N N

Data length: 3 bytes

Valley 5 Field:

TAG	SEP	Data Format
V A L 5		N N N

Data length: 3 bytes

DF1 Scatterplot Field:

TAG	SEP	Data Format
D F 1		N N N • • • N N N N N N

Data length: 4096 bytes

The DF1 scatterplot data is transmitted as a 4096 byte ASCII array. See Appendix D for details on constructing the scatterplot.

DF2 Scatterplot Group 12

DF2 Scatterplot Field:

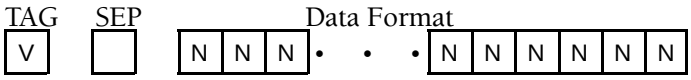
TAG	SEP	Data Format
D F 2		N N N • • • N N N N N N

Data length: 4096 bytes

The DF2 scatterplot data is transmitted as a 4096 byte ASCII array. See Appendix D for details on constructing the scatterplot.

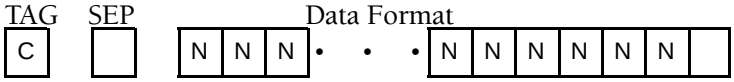
DIFF Histogram Group 13

V Histogram Field:



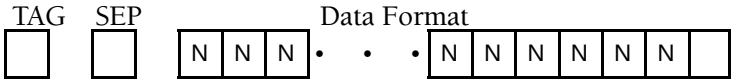
Data length: 512 bytes

C Histogram Field:



Data length: 512 bytes

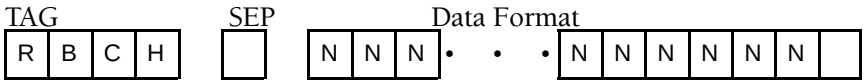
S Histogram Field:



Data length: 512 bytes

RBC Histogram Group 14

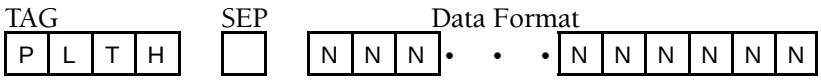
RBC Histogram Field:



Data length: 512 bytes

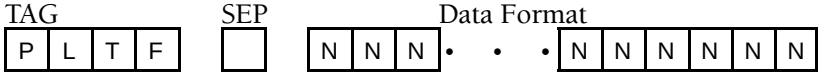
PLT Histogram Group 15

PLT Histogram Field:



Data length: 256 bytes

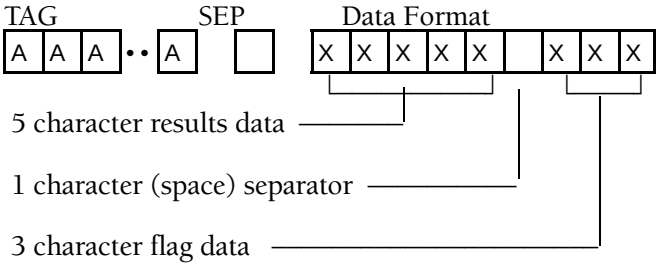
PLT Fit Histogram Field:



Data length: 512 bytes

RETICS Parameters Group 16

Each field in the RETICS Parameters Group will have the following format:



Data length: 9 bytes

Tags:
'**RET%**'
'**RET#**'
'**MRV**'
'**MI**'
'**OTHER**'

Tag length: variable

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

'.....' = incomplete computation.
':::::' = flowcell clogged.
'?????' = invalid analyzed data.
'+++++' = exceeds maximum display limit.
'MRV and MI parameters are NOT for Diagnostic Use.' = data value for OTHER tag only.

Flag Data:

The three flag data characters can contain one or a combination of the following:

'R' - review parameter
'H' - exceeds laboratory set patient high action limit
'L' - below laboratory set patient low action limit
'+' - exceeds parameter reportable range
'E' - edited result
'e' - calculated result from edited value
' ' - no flag

Diagnostics Parameters:

MRV, MI and OTHER tags are only sent when a Retics II or Retics III options are installed.

DF5 LS Scatterplot Group 17

LLS_X1 Valley:

TAG				SEP	Data Format		
L	L	S	1		N	N	N

Data length: 3 bytes

LLS_X2 Valley:

TAG				SEP	Data Format		
L	L	S	2		N	N	N

Data length: 3 bytes

DC Valley:

TAG		SEP	Data Format		
D	C		N	N	N

Data length: 3 bytes

LLS Valley:

TAG				SEP	Data Format		
L	L	S	3		N	N	N

Data length: 3 bytes

DF5 LS Scatterplot Field:

TAG			SEP	Data Format								
D	F	5		N	N	N	• • •	N	N	N	N	N	N

Data length: 4096 bytes

The LS Scatterplot Data is transmitted as a 4096 byte ASCII array. See Appendix E for details on constructing the scatterplot.

DF6 OP Scatterplot Group 18

OP 3 Valley:

TAG			SEP	Data Format		
O	P	3		N	N	N

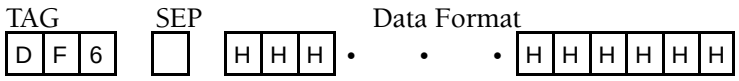
Data length: 3 bytes

DC Valley:

TAG		SEP	Data Format		
D	C		N	N	N

Data length: 3 bytes

DF6 OP Scatterplot Field:

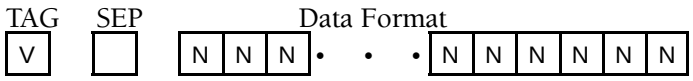


Data length: 4096 bytes

The OP Scatterplot Data is transmitted as a 4096 byte ASCII array. See Appendix E for details on constructing the scatterplot.

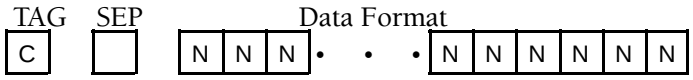
RETICS Histogram Group 19

V Histogram Field:



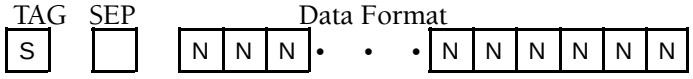
Data length: 512 bytes

C Histogram Field:



Data length: 512 bytes

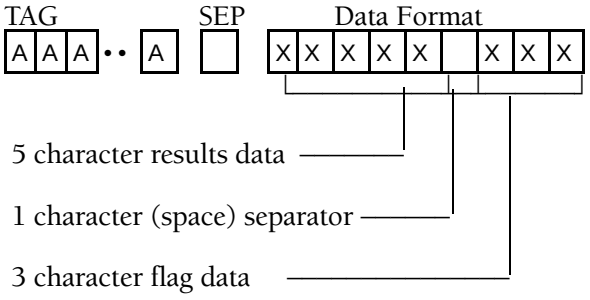
S Histogram Field:



Data length: 512 bytes

CD4 Parameters Group 20

Each field in the CD4 Parameters Group will have the following format:



Data length: 9 bytes

Tags:
'CD4%'
'CD4#'
'CD4:CD8'

Tag Table length: variable

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

'+++++' = result exceeds maximum display limit.
'?????' = invalid percent result.
'.....' = incomplete computation.
':::::' = flowcell clogged.

Flag Data:

The three flag data characters can contain one or a combination of the following:

'R' - review parameter
'H' - exceeds laboratory set patient high action limit
'L' - below laboratory set patient low action limit
'+' - exceeds parameter reportable range
'E' - edited result
'e' - calculated result from edited value
' ' - no flag

CD4 Scatterplot Group 21

Valley 1 Field:

TAG				SEP	Data Format		
V	A	L	1		N	N	N

Data length: 3 bytes

Valley 2 Field:

TAG				SEP	Data Format		
V	A	L	2		N	N	N

Data length: 3 bytes

Valley 3 Field:

TAG				SEP	Data Format		
V	A	L	3		N	N	N

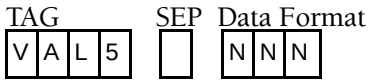
Data length: 3 bytes

Valley 4 Field:

TAG				SEP	Data Format		
V	A	L	4		N	N	N

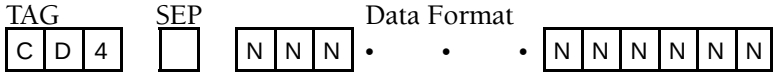
Data length: 3 bytes

Valley 5 Field:



Data length: 3 bytes

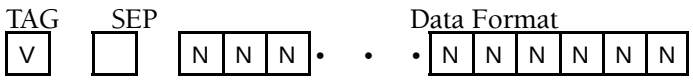
CD4 Scatterplot Field:



The CD4 Scatterplot Data is transmitted as a 4096 byte ASCII array. See Appendix F for details on constructing the scatterplot.

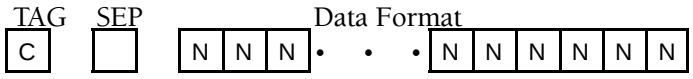
CD4 Histogram Group 22

V Histogram Field:



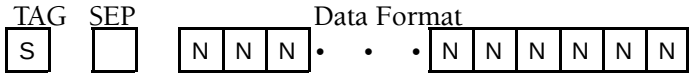
Data length: 512 bytes

C Histogram Field:



Data length: 512 bytes

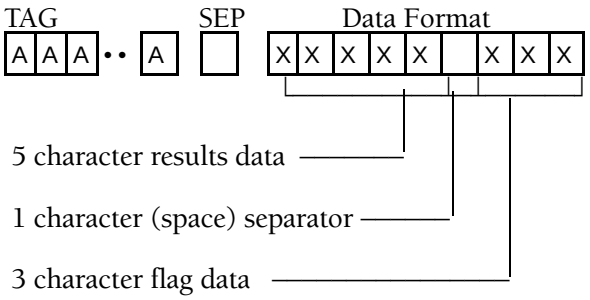
S Histogram Field:



Data length: 512 bytes

CD8 Parameters Group 23

Each field in the CD8 Parameters Group will have the following format:



Data length: 9 bytes

Tags:
'CD8%'
'CD8#'

Tag length: variable

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

'+++++' = result exceeds maximum display limit.
'?????' = invalid percent result.
'.....' = incomplete computation.
':::::' = flowcell clogged.

Flag Data:

The three flag data characters can contain one or a combination of the following:

'R' - review parameter
'H' - exceeds laboratory set patient high action limit
'L' - below laboratory set patient low action limit
'+' - exceeds parameter reportable range
'E' - edited result
'e' - calculated result from edited value
' ' - no flag

CD8 Scatterplot Group 24

Valley 1 Field:

TAG				SEP	Data Format		
V	A	L	1		N	N	N

Data length: 3 bytes

Valley 2 Field:

TAG				SEP	Data Format		
V	A	L	2		N	N	N

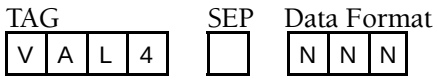
Data length: 3 bytes

Valley 3 Field:

TAG				SEP	Data Format		
V	A	L	3		N	N	N

Data length: 3 bytes

Valley 4 Field:

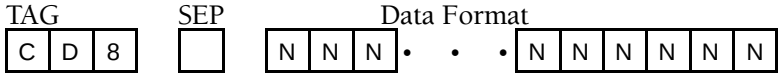


Data length: 3 bytes

Valley 5 Field:

Data length: 3 bytes

CD8 Scatterplot Field:

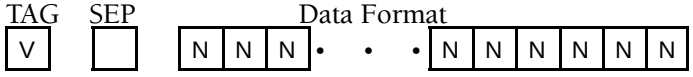


Data length: 4096 bytes

The CD8 Scatterplot Data is transmitted as a 4096 byte ASCII array. See Appendix F for details on constructing the scatterplot.

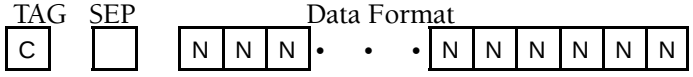
CD8 Histogram Group 25

V Histogram Field:



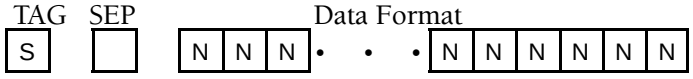
Data length: 512 bytes

C Histogram Field:



Data length: 512 bytes

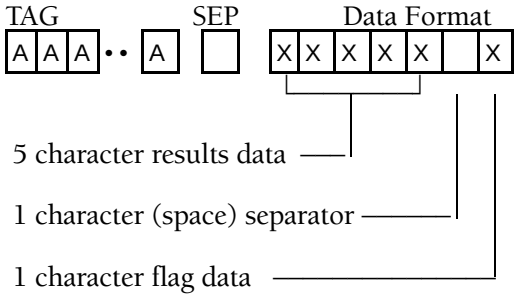
S Histogram Field:



Data length: 512 bytes

DIFF Latex Parameters Group 31

Each field in the DIFF Latex Parameters Group will have the following format:



Data length: 7 bytes

Tags:
'PRIMER'
'V_MN'
'C_MN'
'S_MN'
'V_CV'
'C_CV'
'S_CV'

Tag length: variable

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

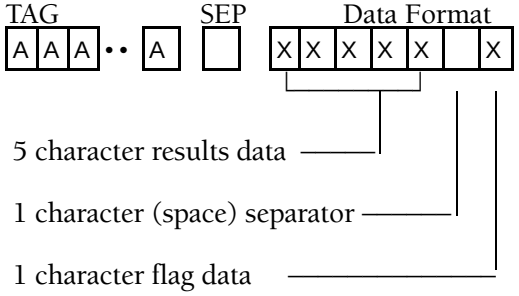
'.....' = incomplete computation.
':::::' = flowcell clogged.

Flag Data:

'H' = Greater than Expected Value Range.
'L' = Less than Expected Value Range.

RETIC Latex Parameters Group 32

Each field in the RETIC Latex Parameters Group will have the following format:



Data length: 7 bytes

Tags:
'**PRIMER**'
'**V_MN**'
'**C_MN**'
'**S_MN**'
'**V_CV**'
'**C_CV**'
'**S_CV**'

Tag length: variable

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

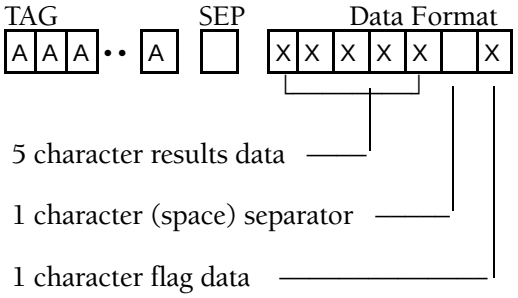
'.....' = incomplete computation.
':::::' = flowcell clogged.

Flag Data:

'H' = Greater than Expected Value Range.
'L' = Less than Expected Value Range.

Subset Latex Parameters Group 33

Each field in the Subset Latex Parameters Group will have the following format:



Data length: 7 bytes

Tags:
'**PRIMER**'
'**V_MN**'
'**C_MN**'
'**S_MN**'
'**V_CV**'
'**C_CV**'
'**S_CV**'

Tag length: variable

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

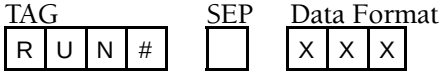
'.....' = incomplete computation.
':::::' = flowcell clogged.

Flag Data:

'H' = Greater than Expected Value Range.
'L' = Less than Expected Value Range.

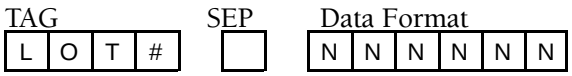
Control Information Group 34

Run# Field:



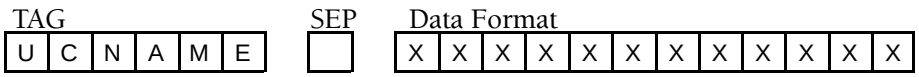
Data length: 3 bytes

Lot# Field:



Data length: 6 bytes

User Control Name Field:

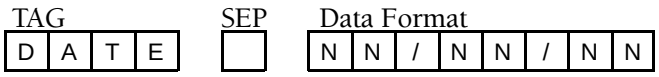


Data length: 12 bytes

Expiration Date Field:

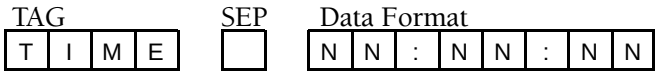
Data length: 8 bytes
Data value: month/day/year.

Date Field:



Data length: 8 bytes
Data value: month/day/year.

Time Field:



Data length: 8 bytes
Data value: hours:minutes:seconds.

Operator Field:

TAG								SEP	Data Format		
O	P	E	R	A	T	O	R		X	X	X

Data length: 3 bytes

IQAP ID Field:

TAG				SEP	Data Format											
I	Q	A	P		X	X	X	X	X	X	X	X	X	X	X	X

Data length: 12 bytes

Delete Flag Field:

TAG					SEP	Data Format
D	F	L	A	G		A

Data length: 1 byte
Data Value:
'Y' - Run was deleted from Control Review or Report Screen.

Shift Field:

TAG					SEP	Data Format
S	H	I	F	T		N

Data length: 1 byte
Data values:
'0', '1', '2' or '3'.

Cassette/Position Field:

TAG							SEP	Data Format						
C	A	S	S	P	O	S		A	X	X	X	X	X	X

Data length: 7 bytes
Data value: cassette number/cassette position

Data value for 'A':
'S' - secondary aspiration mode
' ' - primary aspiration mode

Reference RBC Count Field:

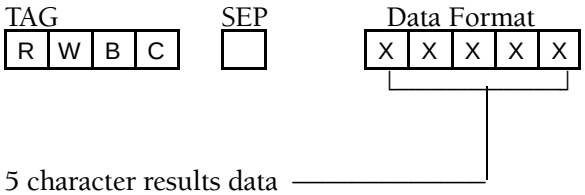
TAG				SEP	Data Format				
R	R	B	C		X	X	X	X	X

5 character results data

Data length: 5 bytes

Note: RRBC field is applicable only to Retic controls.

Reference WBC Count Field:

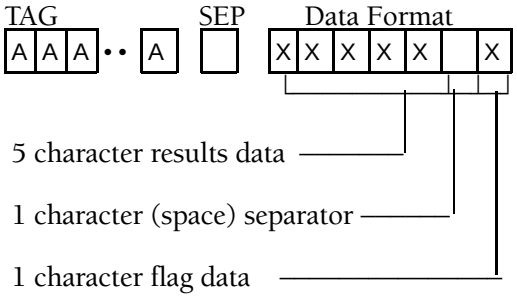


Data length: 5 bytes

Note: RWBC field is applicable only to CD4 and/or CD8 controls.

Control CBC Parameters Group 35

Each field in the Control CBC Parameters Group will have the following format:



Data length: 7 bytes

Tags:

'WBC'
'RBC'
'HGB'
'HCT'
'MCV'
'MCH'
'MCHC'
'RDW'
'PLT'
'PCT'
'MPV'
'PDW'

Tag length: variable

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

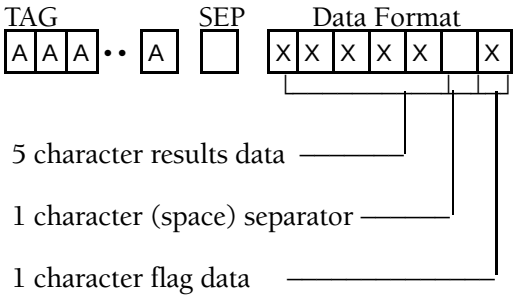
'-----' = total voteout.
'+++++' = count exceeds maximum.
'.....' = incomplete computation.

Flag Data:

'H' = Greater than Expected Value Range.
'L' = Less than Expected Value Range.

Control DIFF Count Parameters Group 36

Each field in the Control DIFF Count Parameters Group will have the following format:



Data length: 7 bytes

Tags:
'LY#'
'MO#'
'NE#'
'EO#'
'BA#'

Tag length: variable

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

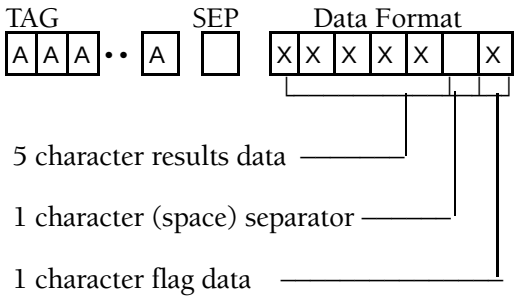
'.....' = incomplete computation.
'?????' = invalid analyzed data.
':::::' = flowcell clogged.

Flag Data:

'H' = Greater than Expected Value Range.
'L' = Less than Expected Value Range.

Control DIFF Percent Parameters Group 37

Each field in the Control DIFF Count Parameters Group will have the following format:



Data length: 7 bytes

Tags:
'LY%'
'MO%'
'NE%'
'EO%'
'BA%'

Tag length: variable

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

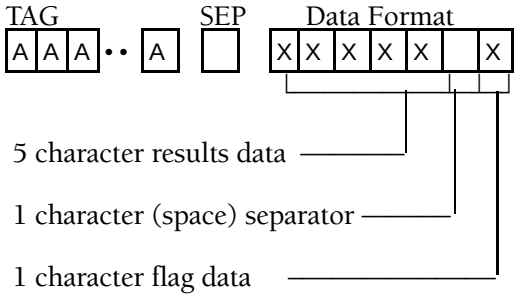
'.....' = incomplete computation.
'?????' = invalid analyzed data.
':::::' = flowcell clogged.

Flag Data:

'H' = Greater than Expected Value Range.
'L' = Less than Expected Value Range.

Control RETICS Parameters Group 38

Each field in the Control RETICS Parameters Group will have the following format:



Data length: 7 bytes

Tags:
'**RET%**'
'**RET#**'
'**MRV**'
'**MI**'
'**OTHER**'

Tag length: variable

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

'.....' = incomplete computation.
':::::' = flowcell clogged.

'MRV and MI parameters are Not for Diagnostic Use.' = Data value for OTHER tag only.

Flag Data:

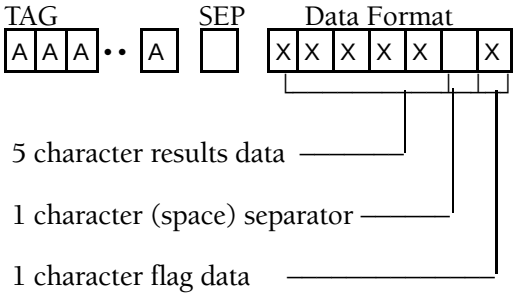
'H' = Greater than Expected Value Range.
'L' = Less than Expected Value Range.

Diagnostics Parameters:

MRV, MI, and OTHER tags are only sent when a Retics II or Retics III options are installed.

Control CD4 Parameters Group 41

Each field in the Control CD4 Parameters Group will have the following format:



Data length: 7 bytes

Tags:
'**CD4%**'
'**CD4#**'

Tag length: variable.

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

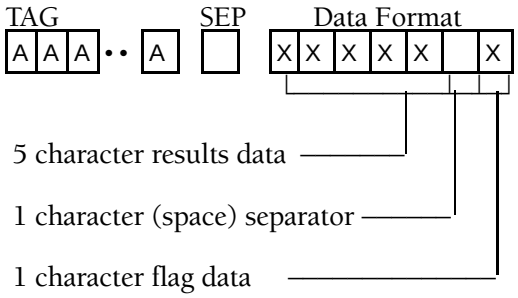
'.....' = incomplete computation.
':::::' = flowcell clogged.

Flag Data:

'H' = Greater than Expected Value Range.
'L' = Less than Expected Value Range.

Control CD8 Parameters Group 42

Each field in the Control CD8 Parameters Group will have the following format:



Data length: 7 bytes

Tags:
'CD8%'
'CD8#'

Tag length: variable.

Results Data:

If the results data does not contain numeric data (e.g. xx.xx), then it contains one of the following:

'.....' = incomplete computation.
':::::' = flowcell clogged.

Flag Data:

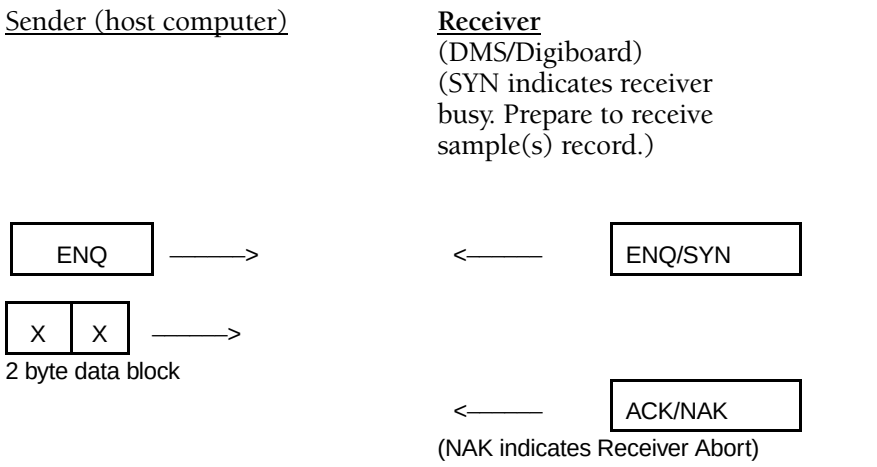
'H' = Greater than Expected Value Range.
'L' = Less than Expected Value Range.

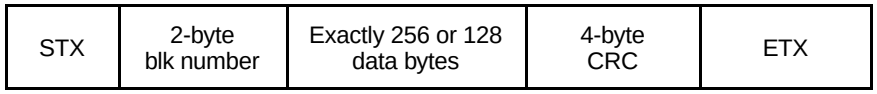
4.1 DATALINK

Protocol

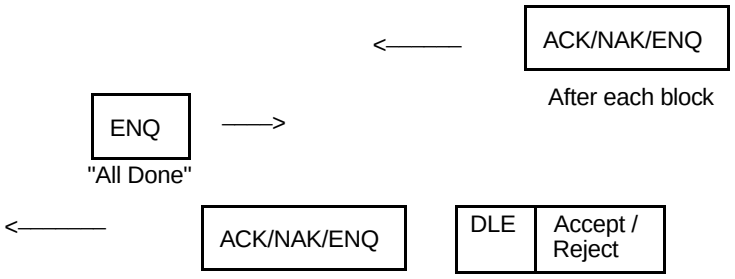
The DMS requires full handshaking to receive data. The protocol is similar to that used for DMS to Host transmissions with the SYN character replaced with the ENQ character.

The data is transmitted as a sequence of up to 255 blocks of data of 256 [or 128] bytes each. Generally, these blocks contain 256 data bytes each, but due to the unique needs of differing hosts, the system is configurable to allow shorter blocks with 128 data bytes.





Send block and await response. Repeat data block and response until done.



The last ACK/NAK sent by DMS/Digiboard indicates to the Host whether DMS/Digiboard accepts or rejects the entire transmission at the Data Link level. DMS/Digiboard than transmits a DLE character followed by a single ASCII character indicating whether the transmission is accepted or rejected at

the presentation level. The ASCII character following the DLE may be one of the following:

Transmission Accepted, Ready for next: 'A'
Transmission Accepted, DO NOT send more: 'B'
Transmission Rejected, Please retry: 'C'
Transmission Rejected, Please abandon: 'D'

The following demonstrates the above protocol:

SENDER (DMS)	RECEIVER (HOST)
ENQ (ready)	——— >
	< ——— ENQ (go ahead) or SYN (busy)
# of data blocks (2 bytes)	——— >
	< ——— ACK (ready to receive) or NAK (receiver abort)
send data blocks	
Block	
	——— >
for each block	
	<——— - ACK (block received ok) or NAK (retransmit this block) or ENQ (retransmit all blocks)
• • •	
ENQ (all done)	
	——— >
	< ——— ACK (transmission accepted) or NAK (transmission rejected)
	(Presentation Level Response)
	< ——— DLE
	< ——— 'A' (transmission accepted, ready for next) or 'B' (transmission accepted, do Not send more) or 'C' (transmission rejected, retry) or 'D' (transmission rejected, abandon)

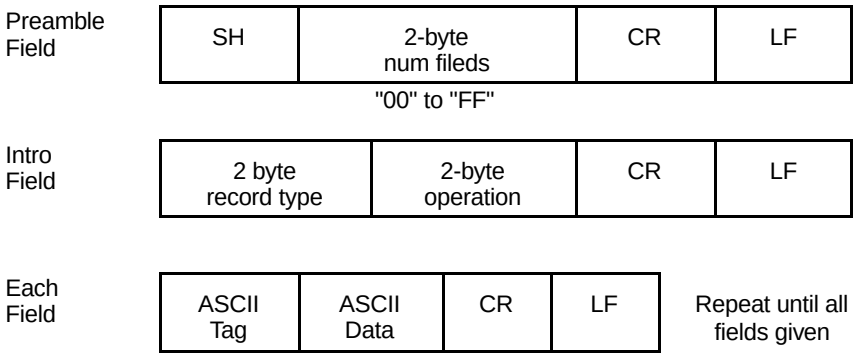
Data Block Structure

Byte #		# of bytes
1	STX	1 byte
2	BLK NBR MS CHAR	1 byte
3	BLK NBR LS CHAR	1 byte
4	DATA BYTES • • •	256 (128) byte — CRC
260 (132)	CRC MSB MS CHAR	1 byte
261 (133)	CRC MSB LS CHAR	1 byte
262 (134)	CRC LSB MS CHAR	1 byte
263 (135)	CRC LSB LS CHAR	1 byte
264 (136)	ETX	1 byte

4.2 Presentation

Message Structure

The data which is blocked for transmission will consist of a sequence of ASCII lines each terminated by a CR/LF pair. The block boundaries for the 256 [or 128] byte blocks would have no special significance with respect to this data. The data may be thought of as a large ASCII buffer which is being sent 256 [or 128] bytes at a time.



Possible Record Type Value: 'WL' - Worklist

Possible Operation Type Value: 'AD' - Add this record

The 2-byte num fields indicate the number of fields that follow the preamble field, i.e, the intro field plus all data fields.

The record type indicates the target data set, e.g, "WL" for Worklist.

The operation code indicates the action to be performed, e.g, "AD" for add this record.

The ASCII Tag is unique to each field within each record type and is always 2 bytes. The ASCII tag TS can repeat itself for as many tests as may be required.

Message Definition

The Host Work List consists of the information about a number of blood samples, each of which has a number of fields. Internally the structure is the same as that used for the Active WorkList. Most of these fields may be transmitted from the Host to the DMS. Below is the list of possible fields, their field width and the appropriate ASCII Tag to be used for transmission.

IMPORTANT: FIELDS CANNOT HAVE LEADING OR TRAILING SPACES (MESSAGE WILL BE REJECTED).

Cassette Number & Position Field:

Tag		Data Format					
C	P	N	N	N	N	N	N

Data length : 6 bytes maximum

Note: *1G1, MAXM (1G1+Retics), and 1G1+Retics+Subsets PROTOCOL SPECIFIC. THE 1G1, MAXM (1G1+Retics), or 1G1+Retics+Subsets* COMPATIBILITY OPTION MUST BE SELECTED, OTHERWISE THIS FIELD WILL BE IGNORED BY THE HOST WORKLIST.

Identifier 1 Field:

Tag		Data Format														
I	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Data length: 16 bytes maximum

Note: *1G1, MAXM (1G1+Retics), and 1G1+Retics+Subsets PROTOCOL SPECIFIC. THE 1G1, MAXM (1G1+Retics), or 1G1+Retics+Subsets* COMPATIBILITY OPTION MUST BE SELECTED, OTHERWISE THIS FIELD WILL BE IGNORED BY THE HOST WORKLIST.

Identifier 2 Field:

Tag		Data Format														
I	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Data length: 16 bytes maximum

Sequence Number Field:

Tag		Data Format					
S	N	N	N	N	N	N	N

Data length: 6 bytes maximum

Birth Date Field:

Tag		Data Format									
B	D	N	N	/	N	N	/	N	N	N	N

Data length: 10 bytes maximum
Data value: month/day/year
Example: 12/31/1999

Sex Field:

Tag		Data Format
S	X	A

Data length: 1 byte maximum
Data value:
'M' - Male
'F' - Female
'U' - Unknown
'O' - Other

Location Field:

Tag	Data Format
L N	X X X X X X X X X X X X X X X X

Data length: 16 bytes maximum

Physician Field:

Tag	Data Format
P H	X X X X X X X X X X X X X X X X X X X X X X

Data length: 22 bytes maximum

User Field 1 Field:

Tag	Data Format
U 1	X X X X X X X X X X X X X X X X

Data length: 16 bytes maximum

User Field 2 Field:

Tag	Data Format
U 2	X X X X X X X X X X X X X X X X

Data length: 16 bytes maximum

User Field 3 Field:

Tag	Data Format
U 3	X X X X X X X X X X X X X X X X

Data length: 16 bytes maximum

Comments 1 Field:

Tag	Data Format
C 1	X X X X X • • • X X X X X

Data length: 32 bytes maximum

Note: *1G1, MAXM (1G1+Retics), and 1G1+Retics+Subsets PROTOCOL SPECIFIC. THE 1G1, MAXM (1G1+Retics), or 1G1+Retics+Subsets* COMPATIBILITY OPTION MUST BE SELECTED, OTHERWISE THIS FIELD WILL BE IGNORED BY THE HOST WORKLIST.

Comments 2 Field:

Tag	Data Format
C 2	X X X X X • • • X X X X X

Data length: 32 bytes maximum

Note: *1G1, MAXM (1G1+Retics), and 1G1+Retics+Subsets PROTOCOL SPECIFIC. THE 1G1, MAXM (1G1+Retics), or 1G1+Retics+Subsets* COMPATIBILITY OPTION MUST BE SELECTED, OTHERWISE THIS FIELD WILL BE IGNORED BY THE HOST WORKLIST.

Comment Field:

Tag	Data Format
C M	X X X X X • • • X X X X X

Data length: 64 bytes maximum

Note: COMMENT 1, COMMENT 2 - For *1G1*, *MAXM (1G1+Retics)*, or *1G1+Retics+Subsets* protcols, these two items (C1, C2) are concatenated and called comment (CM) **ONLY IF** the *1G1 or MAXM (1G1+Retics), or 1G1+Retics+Subsets* Compatibility option is selected, otherwise C1 and/or C2 are ignored.

Profile Field:

Tag	Data Format
P F	N

Data length: 1 bytes maximum

Data values: '1' through '9'. **Note:** If *1G1, MAXM (1G1+Retics)* or *1G1+Retics+Subsets* Compatibility option is selected, this value will contain '1'.

Entry Date Field:

Tag	Data Format
E T	N N / N N / N N

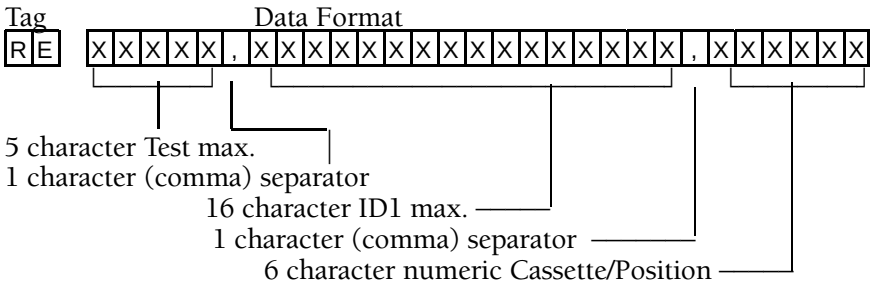
Data length: 8 bytes maximum
Data value: month/day/year
Example: 12/31/99

Entry Time Field:

Tag	Data Format
E T	N N : N N

Data length: 5 bytes maximum
Data value: hour:minute
Example: 20:59

Test Field:


Tag
Data Format
R E
X X X X X , X X X X X X X X X X X X X X X X X , X X X X X X
5 character Test max.
1 character (comma) separator
16 character ID1 max.
1 character (comma) separator
6 character numeric Cassette/Position

Data length: 64 bytes maximum

Data values: TEST,ID1,CASSETTE/POSITION

Test values:
'CBC' (CBC test only)
'DIFF' (CBC/Diff test)
'RETIC'
'CD4'
'CD8'

Examples:

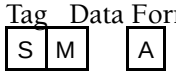
TSRETIC,,	Invalid, ID1 or Cassette/Position not given.
TSRETIC,,000204	OK, ID1 not given.
TSRETIC,1234567,	OK, Cassette/Position not given.
TSRETIC,1234567,000204	OK, Both are specified.
TSCD8,22338388,000105	OK, Both are specified.

Note: *2A* AND *3A* PROTOCOL SPECIFIC. THE *2A* OR *3A* COMPATIBILITY OPTION MUST BE SELECTED, OTHERWISE THIS FIELD WILL BE IGNORED BY THE HOST WORKLIST.

This field includes the test type and its corresponding ID1 and/or Cassette/Position. The host may transmit up to five test fields for CBC, DIFF, RETIC, CD4, and CD8 in any order.

IMPORTANT: Commas are required as separators. The sample will be rejected if any of the commas, test type, or a positive identifier is missing.

Sample Mode Field:



Data length: 1 byte maximum
Data values:
'P' - primary aspiration mode
'S' - secondary aspiration mode

Note: *1G1, MAXM (1G1+Retics), and 1G1+Retics+Subsets PROTOCOL SPECIFIC. THE 1G1, MAXM (1G1+Retics), or 1G1+Retics+Subsets* COMPATIBILITY OPTION MUST BE SELECTED, OTHERWISE THIS FIELD WILL BE IGNORED BY THE HOST WORKLIST.

A.1 Bit ASCII Codes

		0	0	0	0	1	1	1	1
		0	0	1	1	0	0	1	1
		0	1	0	1	0	1	0	1
7	6 5 4 3 2 1								
X	X X 0 0 0 0	NUL	DLE	SP	0	@	P	`	p
X	X X 0 0 0 1	SOH	DC1	!	1	A	Q	a	q
X	X X 0 0 1 0	STX	DC2	"	2	B	R	b	r
X	X X 0 0 1 1	ETX	DC3	#	3	C	S	c	s
X	X X 0 1 0 0	EOT	DC4	$	4	D	T	d	t
X	X X 0 1 0 1	ENQ	NAK	%	5	E	U	e	u
X	X X 0 1 1 0	ACK	SYN	&	6	F	V	f	v
X	X X 0 1 1 1	BEL	ETB	'	7	G	W	g	w
X	X X 1 0 0 0	BS	CAN	(	8	H	X	h	x
X	X X 1 0 0 1	HT	EM	)	9	I	Y	i	y
X	X X 1 0 1 0	LF	SUB	*	:	J	Z	j	z
X	X X 1 0 1 1	VT	ESC	+	;	K	[	k	{
X	X X 1 1 0 0	FF	FS	,	<	L	\	l	|
X	X X 1 1 0 1	CR	GS	-	=	M	]	m	}
X	X X 1 1 1 0	SO	RS	.	>	N	^	n	~
X	X X 1 1 1 1	SI	US	/	?	O	_	o	DEL

A.2 Valid Host Communications ASCII Codes

		0	0	0	0	1	1	1	1
		0	0	1	1	0	0	1	1
		0	1	0	1	0	1	0	1
7	6 5 4 3 2 1								
X	X X 0 0 0 0	**DLE**	SP	0	@	P	`	p	
X	X X 0 0 0 1			!	1	A	Q	a	q
X	X X 0 0 1 0	**STX**		"	2	B	R	b	r
X	X X 0 0 1 1	**ETX**		#	3	C	S	c	s
X	X X 0 1 0 0			$	4	D	T	d	t
X	X X 0 1 0 1	**ENQ**	**NAK**	%	5	E	U	e	u
X	X X 0 1 1 0	**ACK**	**SYN**	&	6	F	V	f	v
X	X X 0 1 1 1			'	7	G	W	g	w
X	X X 1 0 0 0			(	8	H	X	h	x
X	X X 1 0 0 1	HT		)	9	I	Y	i	y
X	X X 1 0 1 0	LF		*	:	J	Z	j	z
X	X X 1 0 1 1			+	;	K	[	k	{
X	X X 1 1 0 0			,	<	L	\	l	|
X	X X 1 1 0 1	CR		-	=	M	]	m	}
X	X X 1 1 1 0			.	>	N	^	n	~
X	X X 1 1 1 1			/	?	O	_	o	

Highlighted only used for Datalink control.

APPENDIX B
CRC

B.1 CRC Algorithm

The CRC algorithm used is a modified CCITT CRC16 algorithm. The polynomial for this algorithm is:

X**16 + X**12 + X**5 + 1.

Note: D = current data byte that is input to the algorithm.
CRCLSB,CRCMSB = data byte. Least significant and most significant CRC accumulator bytes.

x>>n means x is shifted n bits to right or is the same as x divided by 2^n.

x<<n means x is shifted n bits to left or is the same as x multiplied by 2^n.

at beginning,

CRCLSB = 0FFH (octal 377) (decimal 255)
CRCMSB = 0FFH (octal 377) (decimal 255)

then for each data byte in a block,

X = D XOR CRCMSB
X = X XOR (X >> 4)
CRCMSB = CRCLSB XOR (X >> 3) XOR (X << 4)
CRCLSB = X XOR (X << 5)

and at end,

CRCLSB = CRCLSB XOR 0FFH
CRCMSB = CRCMSB XOR 0FFH.

B.2 CRC Example Written in ASM86

The following is an example of CRC16 code written in assembler for 8086:

```
;---------------------------------------------------------------
------------GET_CRC_BYTES   PROC
            PUSH        CX
;This is the Algorithm used (CCITT CRC16):
;
;           X = D XOR CRCMSB
;           X = X XOR ( X >> 4 )
;           CRCMSB = CRCLSB XOR ( X >> 3 ) XOR ( X << 4 )
;           CRCLSB = X XOR ( X << 5 )
;
;Data arrives in AL.
;Finished CRC is in BX ( BH = MSB, BL = LSB )
;To use this algorithm:
;   1. Initialize BX to 0FFFFH.
;   2. At end:
;       CRCLSB = CRCLSB XOR 0FFH.
;       CRCMSB = CRCMSB XOR OFFH.

            XOR AL,BH       ;X=D XOR CRCMSB (AL=X)
        <--- 1

            MOV AH,AL       ;Save X for later in AH
            SHR AL,4        ;Then AL=X >> 4

            XOR AL,AH       ;X=X XOR ( X >> 4 )
        <--- 2

            MOV AH,AL       ;Save X
            MOV CH,AL       ;Save X
            SHR AL,3        ;Then AL= ( X >> 3 )
            XOR AL,BL       ;AL=CRCLSB XOR ( X >> 3 )
            SHL AH,4        ;AH=( X << 4 )

            XOR AL,AH       ;CRCMSB=CRCLSB XOR
            MOV BH,AL       ; ( X >> 3 ) XOR ( X << 4 )
    <--- 3

            MOV AL,CH       ;Recover X in AL
            SHL AL,5        ;AL=( X << 5 )
            XOR AL,CH       ;AL=X XOR ( X << 5 )

            MOV BL,AL       ;CRCLSB=X XOR ( X << 5 )
    <--- 4

            POP CX
            RET
GET_CRC_BYTES   ENDP
;---------------------------------------------------------------
```

B.3 CRC Example Written in C

The following is an example of CRC16 code written in C.

```
void calc_crc ( unsigned character data_byte )
    {
        data_byte ^= crcmsb;
        data_byte ^= ( data_byte / 16 );
        crcmsb = crclsb ^ ( data_byte / 8 ) ^ (
data_byte * 16 );
        crclsb = data_byte ^ ( data_byte * 32 );
}
```

APPENDIX C
FLAGS

Table C.1 Flags

Condition Flags	Definitive Flags	Suspect Flags*	Other Flags
Normal WBC Pop	Leukopenia	Blasts	Edited data
Abnormal WBC Pop	Leukocytosis	Imm Grans/Bands1	PRELIMINARY REPORT
Normal RBC Pop	Neutropenia %	Imm Grans/Bands2	COLLATE FAILED
Abnormal RBC Pop	Neutropenia #	Variant Lymphs	
Normal PLT Pop	Neutrophilia %	Review Slide	
Abnormal PLT Pop	Neutrophilia #	NRBCs	
Verify Retic	Lymphopenia %	Dimorphic RBC Pop	
Abnormal Subset	Lymphopenia #	Micro RBCs/	
	Lymphocytosis %	RBC Fragments	
	Lymphocytosis #	RBC Agglutination	
	Monocytosis %	Platelet Clumps	
	Monocytosis #	Giant Platelets	
	Eosinophilia %	Inconsistent Diff CD	
	Eosinophilia #	Subset Pop Shift	
	Basophilia %	Unlysed RBCs	
	Basophilia #		
	Anemia		
	1+ Anisocytosis		
	2+ Anisocytosis		
	3+ Anisocytosis		
	1+ Microcytosis		
	2+ Microcytosis		
	3+ Microcytosis		
	1+ Macrocytosis		
	2+ Macrocytosis		
	3+ Macrocytosis		
	1+ Hypochromia		
	2+ Hypochromia		
	3+ Hypochromia		
	1+ Poikilocytosis		
	2+ Poikilocytosis		
	3+ Poikilocytosis		
	Erythrocytosis		
	Pancytopenia		
	Thrombocytopenia		
	Thrombocytosis		
	Small Platelets		
	Large Platelets		

* Enabled by installing Suspect Flag XMIT PROM available from Customer Service.

D.1 DF1 Valleys

The five valley fields are used to disect the DF1 scatterplot. Each valley field is an ASCII representation of a value from 0 to 255. The values are used as follows:

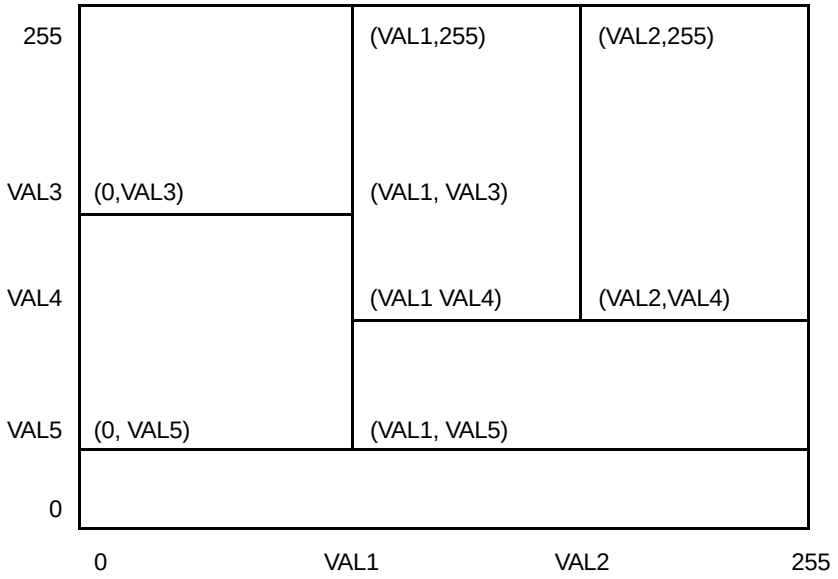


Figure D.1

D.2 Diff Scatterplot

The DIFF scatterplot data consist of 4096 bytes of hexidecimal data. The scatterplot hexidecimal data can only have values in the range of 00H to 0FH. Each of the 4096 bytes of hexidecimal data is converted to 4096 bytes of ASCII data before being transmitted to the host.

Table D.1 Hex to ASCII Conversion

HEX DATA	ASCII DATA	HEX DATA	ASCII DATA
00H	30H	08H	38H
01H	31H	09H	39H
02H	32H	0AH	41H
03H	33H	0BH	42H
04H	34H	0CH	43H
05H	35H	0DH	44H
06H	36H	0EH	45H
07H	37H	0FH	46H

To convert the transmitted 4096 ASCII bytes back to a hexidecimal array just reverse the process by converting each ASCII byte to a hexidecimal byte. (ex. 31H => 01H).

The 4096 hexidecimal bytes should be viewed as a two dimensional array of 64 bytes X 64 bytes. As previously stated each byte can only have a value between 00H and 0FH.

The scatterplot is constructed by mapping each hexidecimal byte of the scatterplot array to a colored 4 X 4 pixel pattern as illustrated in figure C.2.

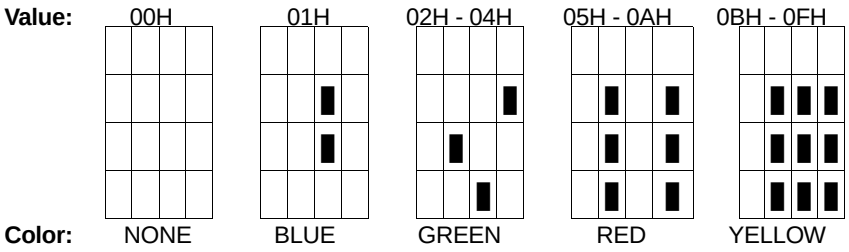
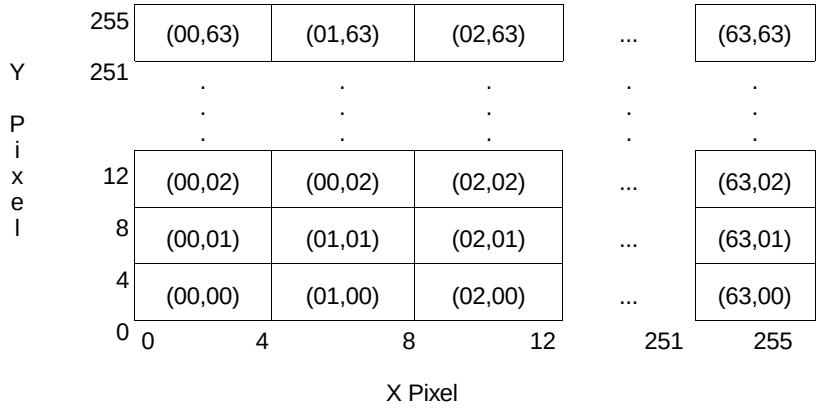


Figure D.2A

The 4 X 4 pixel pattern is mapped into a 256 X 256 pixel graph as depicted in Figure D.3.



Note: [][] (brackets) indicate index into scatterplot 64 X 64 array.

D.3 Histograms

The histograms are transmitted as 512 ASCII bytes (256 bytes for PLT) representing a 256 byte (128 byte for PLT) Hex array. It takes two ASCII bytes to represent one Hex byte.

Each Hex byte represents a scaled count for each channel 0 - 255 (14 - 142 for PLT). The histograms can be constructed by plotting the count for each channel then drawing a line between plots.

For plotting the count is the y-axis and the channel is the x-axis.

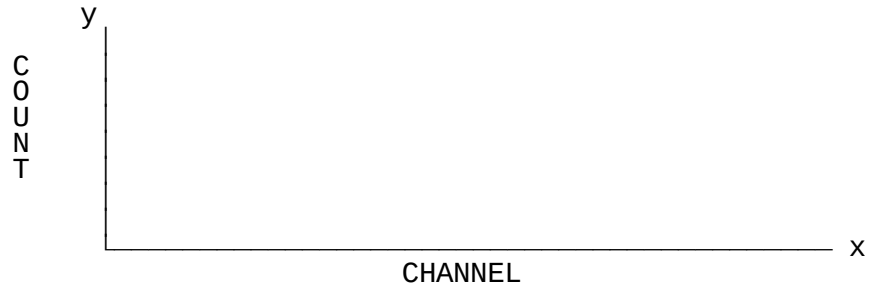


Figure D.3

E.1 DF5

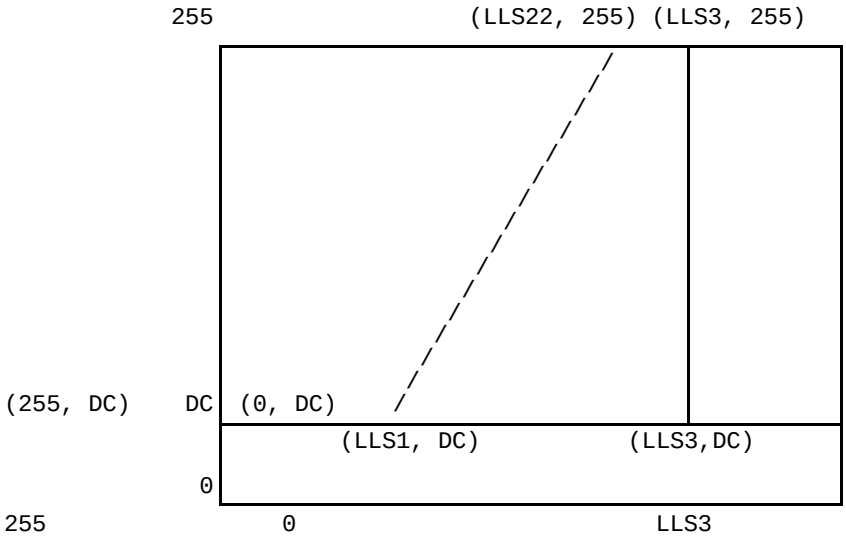


Figure E.1

E.2 DF6

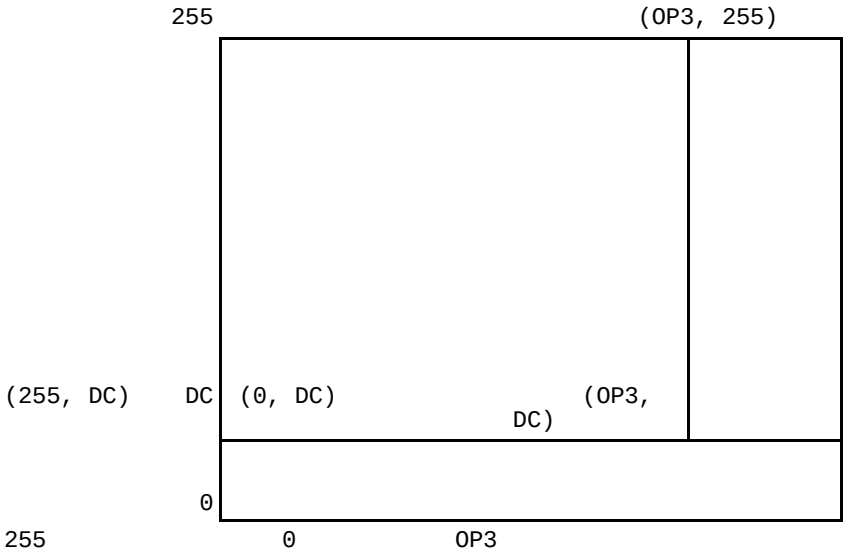


Figure E.2

APPENDIX F
CD4 and CD8 Graphics Reconstruction

F.1 CD4

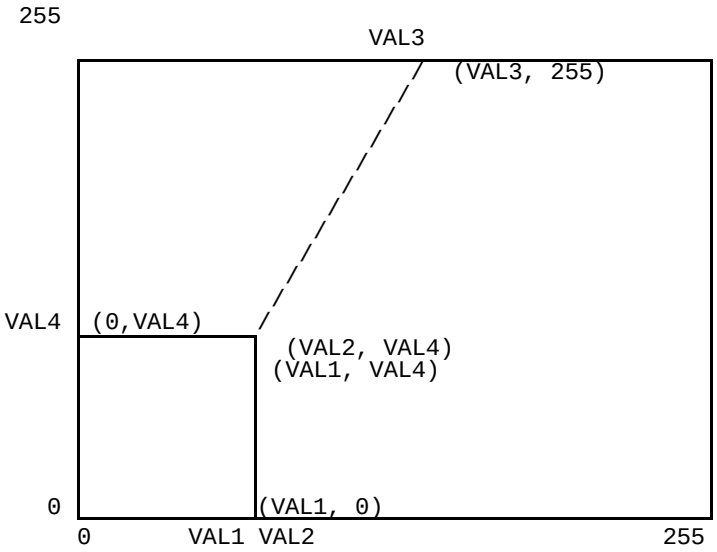


Figure F.1

F.2 CD8

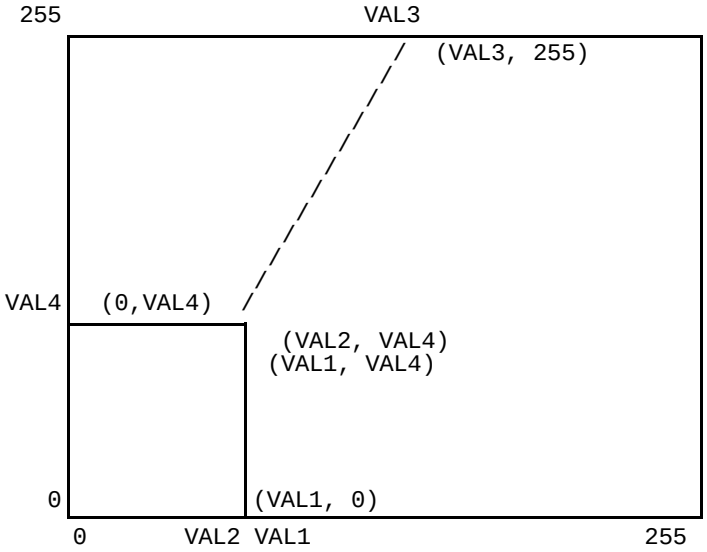


Figure F.2

APPENDIX G
1G1+Retics+Subsets Transmission Format Example of Collated CBC/Diff/Retics/CD4/CD8

```
000000   0D 0A 0D 0A  0D 0A 0D 0A  0D 0A 0D 0A  2D 2D 2D 2D   ················
000010   2D 2D 2D 2D  2D 2D 2D 2D  2D 2D 0D 0A  11 30 41 0D   ------------·0A·
000020   0A 44 41 54  45 20 30 33  2F 31 39 2F  39 36 20 0D   ·DATE 03/19/96 ·
000030   0A 54 49 4D  45 20 31 35  3A 34 32 3A  32 30 20 20   ·TIME 15:42:20
000040   20 20 0D 0A  49 44 31 20  38 39 32 35  37 32 33 30     ··ID1 89257230
000050   34 34 37 00  00 00 00 00  0D 0A 49 44  32 20 54 68   447······ID2 Th
000060   69 73 49 73  49 64 32 54  68 69 73 49  73 49 0D 0A   isIsId2ThisIsI··
000070   43 41 53 53  2F 50 4F 53  20 30 30 30  32 2F 30 37   CASS/POS 0002/07
000080   20 0D 0A 53  45 51 55 45  4E 43 45 20  31 32 33 34    ··SEQUENCE 1234
000090   35 36 20 0D  0A 31 45 43  2F 50 20 20  30 30 30 32   56 ··1EC/P  0002
0000A0   30 37 20 0D  0A 49 44 31  53 54 41 54  55 53 20 50   07 ··ID1STATUS P
0000B0   20 0D 0A 43  2F 50 53 54  41 54 55 53  20 50 20 0D    ··C/PSTATUS P ·
0000C0   0A 57 4C 53  54 41 54 55  53 20 47 4F  4F 44 20 20   ·WLSTATUS GOOD
0000D0   20 20 20 0D  0A 11 30 41  0D 0A 57 42  43 20 20 20      ···0A··WBC
0000E0   20 34 2E 39  00 20 20 20  0D 0A 52 42  43 20 20 20    4.9·   ··RBC
0000F0   34 2E 34 38  00 20 20 20  0D 0A 48 47  42 20 20 20   4.48·   ··HGB
000100   31 33 2E 34  00 20 20 20  0D 0A 48 43  54 20 20 20   13.4·   ··HCT
000110   34 30 2E 30  00 20 20 20  0D 0A 4D 43  56 20 20 20   40.0·   ··MCV
000120   38 39 2E 32  00 20 20 20  0D 0A 4D 43  48 20 20 20   89.2·   ··MCH
000130   32 39 2E 39  00 20 20 20  0D 0A 4D 43  48 43 20 20   29.9·   ··MCHC
000140   33 33 2E 35  00 20 20 20  0D 0A 52 44  57 20 20 20   33.5·   ··RDW
000150   31 32 2E 36  00 20 20 20  0D 0A 50 4C  54 20 20 20   12.6·   ··PLT
000160   20 32 30 32  00 20 20 20  0D 0A 4D 50  56 20 20 20    202·   ··MPV
000170   20 38 2E 39  00 20 20 20  0D 0A 11 30  35 0D 0A 4C    8.9·   ···05··L
000180   59 23 20 20  20 20 32 2E  36 00 20 20  20 0D 0A 4D   Y#    2.6·   ··M
000190   4F 23 20 20  20 20 30 2E  37 00 20 20  20 0D 0A 4E   O#    0.7·   ··N
0001A0   45 23 20 20  20 20 30 2E  39 00 20 20  4C 0D 0A 45   E#    0.9·  L··E
0001B0   4F 23 20 20  20 20 30 2E  34 00 20 20  20 0D 0A 42   O#    0.4·   ··B
0001C0   41 23 20 20  20 20 30 2E  33 00 20 20  48 0D 0A 11   A#    0.3·  H···
0001D0   30 35 0D 0A  4C 59 25 20  20 20 35 32  2E 34 00 20   05··LY%   52.4·
0001E0   20 20 0D 0A  4D 4F 25 20  20 20 31 34  2E 30 00 20     ··MO%   14.0·
0001F0   20 48 0D 0A  4E 45 25 20  20 20 31 38  2E 35 00 20    H··NE%   18.5·
000200   20 4C 0D 0A  45 4F 25 20  20 20 20 38  2E 32 00 20    L··EO%    8.2·
000210   20 20 0D 0A  42 41 25 20  20 20 20 36  2E 39 00 20     ··BA%    6.9·
000220   20 48 0D 0A  11 30 31 0D  0A 63 6F 6D  6D 65 6E 74    H···01··comment
000230   73 39 30 31  32 33 34 35  36 37 38 39  30 31 32 33   s901234567890123
000240   34 35 36 37  38 39 30 31  32 33 34 35  36 37 38 39   4567890123456789
000250   30 31 32 33  34 35 36 37  38 39 30 31  32 33 34 35   0123456789012345
000260   36 37 38 39  30 31 32 33  34 0D 0A 11  30 38 0D 0A   678901234···08··
000270   41 62 6E 6F  72 6D 61 6C  20 57 42 43  20 50 6F 70   Abnormal WBC Pop
000280   0D 0A 4E 65  75 74 72 6F  70 65 6E 69  61 20 25 0D   ··Neutropenia %·
000290   0A 4E 65 75  74 72 6F 70  65 6E 69 61  20 23 0D 0A   ·Neutropenia #··
0002A0   4D 6F 6E 6F  63 79 74 6F  73 69 73 20  25 0D 0A 42   Monocytosis %··B
0002B0   61 73 6F 70  68 69 6C 69  61 20 25 0D  0A 42 61 73   asophilia %··Bas
0002C0   6F 70 68 69  6C 69 61 20  23 0D 0A 4E  6F 72 6D 61   ophilia #··Norma
0002D0   6C 20 52 42  43 20 50 6F  70 0D 0A 4E  6F 72 6D 61   l RBC Pop··Norma
0002E0   6C 20 50 4C  54 20 50 6F  70 0D 0A 11  30 39 0D 0A   l PLT Pop···09··
0002F0   42 49 52 54  48 20 30 31  2F 32 36 2F  31 39 35 31   BIRTH 01/26/1951
000300   20 0D 0A 55  46 31 20 75  73 65 72 66  69 65 6C 64    ··UF1 userfield
000310   31 75 73 65  72 66 69 20  0D 0A 55 46  32 20 75 73   1userfi ··UF2 us
000320   65 72 66 69  65 6C 64 31  75 73 65 72  66 69 20 0D   erfield1userfi ·
000330   0A 55 46 33  20 75 73 65  72 66 69 65  6C 64 31 75   ·UF3 userfield1u
000340   73 65 72 66  69 20 0D 0A  53 45 58 20  20 20 0D 0A   serfi ··SEX   ··
000350   4C 4F 43 41  54 49 4F 4E  20 6C 6F 63  61 74 69 6F   LOCATION locatio
000360   6E 6C 6F 63  61 74 69 6F  6E 20 0D 0A  50 48 59 53   nlocation ··PHYS
000370   49 43 49 41  4E 20 70 68  79 73 69 63  69 61 6E 70   ICIAN physicianp
000380   68 79 73 69  63 69 61 6E  70 68 79 73  20 0D 0A 55   hysicianphys ··U
000390   44 41 54 45  20 30 33 2F  31 39 2F 39  36 20 0D 0A   DATE 03/19/96 ··
0003A0   55 54 49 4D  45 20 31 35  3A 31 34 20  0D 0A 11 30   UTIME 15:14 ···0
0003B0   36 0D 0A 52  45 54 44 41  54 45 20 30  33 2F 31 39   6··RETDATE 03/19
0003C0   2F 39 36 20  0D 0A 52 45  54 54 49 4D  45 20 31 35   /96 ··RETTIME 15
0003D0   3A 33 34 3A  33 31 20 20  20 20 0D 0A  52 49 44 20   :34:31    ··RID
0003E0   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
0003F0   0D 0A 52 43  41 53 53 2F  50 4F 53 20  53 30 30 30   ··RCASS/POS S000
000400   32 2F 30 38  20 0D 0A 52  45 54 25 20  20 32 2E 30   2/08 ··RET%  2.0
000410   38 00 20 20  20 0D 0A 52  45 54 23 20  2E 30 39 33   8·   ··RET# .093
000420   30 00 20 20  20 0D 0A 11  30 36 0D 0A  43 44 34 44   0·   ···06··CD4D
000430   41 54 45 20  30 33 2F 31  39 2F 39 36  20 0D 0A 43   ATE 03/19/96 ··C
000440   44 34 54 49  4D 45 20 31  35 3A 34 35  3A 32 35 20   D4TIME 15:45:25
000450   20 20 20 0D  0A 43 44 34  49 44 20 38  39 32 35 38      ··CD4ID 89258
000460   39 36 32 35  35 39 20 20  20 20 20 0D  0A 43 44 34   962559     ··CD4
000470   43 41 53 53  2F 50 4F 53  20 30 30 30  32 2F 30 39   CASS/POS 0002/09
000480   20 0D 0A 43  44 34 25 20  20 33 30 2E  32 00 20 20    ··CD4%  30.2·
000490   20 0D 0A 43  44 34 23 20  20 31 30 35  36 00 20 20    ··CD4#  1056·
0004A0   20 0D 0A 11  30 37 0D 0A  43 44 38 44  41 54 45 20    ···07··CD8DATE
0004B0   30 33 2F 31  39 2F 39 36  20 0D 0A 43  44 38 54 49   03/19/96 ··CD8TI
0004C0   4D 45 20 31  35 3A 34 37  3A 35 35 20  20 20 20 0D   ME 15:47:55    ·
0004D0   0A 43 44 38  49 44 20 38  39 32 35 38  39 36 32 35   ·CD8ID 892589625
0004E0   36 31 20 20  20 20 20 0D  0A 43 44 38  43 41 53 53   61     ··CD8CASS
0004F0   2F 50 4F 53  20 30 30 30  32 2F 30 34  20 0D 0A 43   /POS 0002/04 ··C
000500   44 38 25 20  20 20 38 2E  34 00 20 20  4C 0D 0A 43   D8%   8.4·  L··C
```

```
000510   44 38 23 20  20 20 32 39  35 00 20 20  20 0D 0A 34   D8#   295·   ··4
000520   3A 38 20 20  20 33 2E 35  39 00 20 20  20 0D 0A 11   :8   3.59·   ···
000530   0D 0A 0D 0A  2D 2D 2D 2D  2D 2D 2D 2D  2D 2D 2D 2D   ----------------
000540   2D 2D 0D 0A  20 20 20 20  20 20 20 20  20 20 20 20   ----
000550   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
000560   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
000570   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
000580   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
000590   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
0005A0   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
0005B0   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
0005C0   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
0005D0   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
0005E0   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
0005F0   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
```

APPENDIX H
3A TRANSMISSION FORMAT EXAMPLE OFCOLLATED CBC/DIFF/RETICS/CD4/CD8

```
000000   0D 0A 0D 0A  0D 0A 0D 0A  0D 0A 0D 0A  2D 2D 2D 2D   ................
000010   2D 2D 2D 2D  2D 2D 2D 2D  2D 2D 0D 0A  53 30 35 0D   ----------·S05·
000020   0A 43 42 43  0D 0A 44 49  46 46 0D 0A  52 45 54 49   ·CBC··DIFF··RETI
000030   43 0D 0A 43  44 34 0D 0A  43 44 38 0D  0A 54 43 42   C··CD4··CD8··TCB
000040   43 0D 0A 30  37 0D 0A 47  30 31 0D 0A  30 38 0D 0A   C··07··G01··08··
000050   44 41 54 45  20 31 31 2F  32 32 2F 39  35 0D 0A 54   DATE 11/22/95··T
000060   49 4D 45 20  31 31 3A 31  32 3A 35 39  0D 0A 49 44   IME 11:12:59··ID
000070   31 20 38 39  32 35 37 32  33 30 31 38  37 0D 0A 50   1 89257230187··P
000080   49 44 31 20  38 39 32 35  37 32 33 30  31 38 37 0D   ID1 89257230187·
000090   0A 43 41 53  53 50 4F 53  20 50 30 30  30 32 30 34   ·CASSPOS P000204
0000A0   0D 0A 50 43  41 53 53 50  4F 53 20 30  30 30 32 30   ··PCASSPOS 00020
0000B0   34 0D 0A 49  44 31 53 54  41 54 55 53  20 50 0D 0A   4··ID1STATUS P··
0000C0   43 2F 50 53  54 41 54 55  53 20 50 0D  0A 47 30 32   C/PSTATUS P··G02
0000D0   0D 0A 30 41  0D 0A 57 42  43 20 20 20  37 2E 32 20   ··0A··WBC   7.2
0000E0   20 20 20 0D  0A 52 42 43  20 20 34 2E  36 35 20 20      ··RBC  4.65
0000F0   20 20 0D 0A  48 47 42 20  20 31 34 2E  38 20 20 20    ··HGB  14.8
000100   20 0D 0A 48  43 54 20 20  34 33 2E 37  20 20 20 20   ··HCT  43.7
000110   0D 0A 4D 43  56 20 20 39  33 2E 39 20  20 20 20 0D   ··MCV  93.9    ·
000120   0A 4D 43 48  20 20 33 31  2E 38 20 20  20 20 0D 0A   ·MCH  31.8    ··
000130   4D 43 48 43  20 20 33 33  2E 38 20 20  20 20 0D 0A   MCHC  33.8    ··
000140   52 44 57 20  20 31 31 2E  37 20 20 20  20 0D 0A 50   RDW  11.7    ··P
000150   4C 54 20 20  20 32 37 30  20 20 20 20  0D 0A 4D 50   LT   270    ··MP
000160   56 20 20 20  38 2E 32 20  20 20 20 0D  0A 47 30 35   V   8.2    ··G05
000170   0D 0A 30 31  0D 0A 43 4F  4D 4D 45 4E  54 20 43 4F   ··01··COMMENT CO
000180   4D 4D 45 4E  54 53 39 30  31 32 33 34  35 36 37 38   MMENTS9012345678
000190   39 30 31 32  33 34 35 36  37 38 39 30  31 32 33 34   9012345678901234
0001A0   35 36 37 38  39 30 31 32  33 34 35 36  37 38 39 30   5678901234567890
0001B0   31 32 33 34  35 36 37 38  39 30 31 32  33 34 0D 0A   12345678901234··
0001C0   47 30 38 0D  0A 30 33 0D  0A 43 4F 4E  44 49 54 49   G08··03··CONDITI
0001D0   4F 4E 20 4E  6F 72 6D 61  6C 20 57 42  43 20 50 6F   ON Normal WBC Po
0001E0   70 0D 0A 43  4F 4E 44 49  54 49 4F 4E  20 4E 6F 72   p··CONDITION Nor
0001F0   6D 61 6C 20  52 42 43 20  50 6F 70 0D  0A 43 4F 4E   mal RBC Pop··CON
000200   44 49 54 49  4F 4E 20 4E  6F 72 6D 61  6C 20 50 4C   DITION Normal PL
000210   54 20 50 6F  70 0D 0A 47  30 41 0D 0A  30 43 0D 0A   T Pop··G0A··0C··
000220   42 49 52 54  48 20 30 31  2F 30 31 2F  31 39 39 35   BIRTH 01/01/1995
000230   0D 0A 55 46  31 20 55 46  31 34 35 36  37 38 39 30   ··UF1 UF14567890
000240   31 32 33 34  35 36 0D 0A  55 46 32 20  55 46 32 34   123456··UF2 UF24
000250   35 36 37 38  39 30 31 32  33 34 35 36  0D 0A 55 46   567890123456··UF
000260   33 20 55 46  33 34 35 36  37 38 39 30  31 32 33 34   3 UF345678901234
000270   35 36 0D 0A  53 45 58 20  4D 0D 0A 4C  4F 43 41 54   56··SEX M··LOCAT
000280   49 4F 4E 20  4C 4F 43 34  35 36 37 38  39 30 31 32   ION LOC456789012
000290   33 34 35 36  0D 0A 50 48  59 53 49 43  49 41 4E 20   3456··PHYSICIAN
0002A0   50 48 59 34  35 36 37 38  39 30 31 32  33 34 35 36   PHY4567890123456
0002B0   37 38 0D 0A  45 44 20 31  31 2F 32 32  2F 39 35 0D   78··ED 11/22/95·
0002C0   0A 45 54 20  31 30 3A 35  37 0D 0A 49  44 32 20 49   ·ET 10:57··ID2 I
0002D0   44 23 32 35  36 37 38 39  30 31 32 33  34 35 36 0D   D#2567890123456·
0002E0   0A 53 45 51  55 45 4E 43  45 20 31 32  33 34 35 36   ·SEQUENCE 123456
0002F0   0D 0A 50 46  20 36 0D 0A  47 30 45 0D  0A 30 31 0D   ··PF 6··G0E··01·
000300   0A 52 42 43  48 20 30 30  30 30 30 30  30 30 30 30   ·RBCH 0000000000
000310   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000320   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000330   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000340   30 30 30 31  30 31 30 32  30 33 30 34  30 35 30 37   0001010203040507
000350   30 41 30 45  31 31 31 36  31 42 32 32  32 41 33 31   0A0E11161B222A31
000360   33 37 33 42  34 30 34 36  34 42 34 46  34 46 34 46   373B40464B4F4F4F
000370   34 46 34 45  34 44 34 38  34 33 33 45  33 38 33 31   4F4E4D48433E3831
000380   32 43 32 38  32 34 32 31  31 44 31 38  31 34 31 31   2C2824211D181411
000390   30 45 30 44  30 42 30 41  30 39 30 38  30 37 30 37   0E0D0B0A09080707
0003A0   30 37 30 36  30 36 30 35  30 35 30 34  30 34 30 34   0706060505040404
0003B0   30 35 30 35  30 35 30 34  30 34 30 35  30 35 30 35   0505050404050505
0003C0   30 35 30 35  30 35 30 35  30 35 30 35  30 35 30 35   0505050505050505
0003D0   30 35 30 35  30 36 30 36  30 36 30 36  30 36 30 35   0505060606060605
0003E0   30 35 30 35  30 35 30 35  30 35 30 34  30 34 30 35   0505050505040405
0003F0   30 34 30 34  30 34 30 34  30 34 30 34  30 34 30 34   0404040404040404
000400   30 33 30 33  30 32 30 32  30 32 30 32  30 33 30 32   0303020202020302
000410   30 32 30 32  30 32 30 32  30 32 30 32  30 32 30 32   0202020202020202
000420   30 32 30 32  30 31 30 31  30 31 30 31  30 31 30 31   0202010101010101
000430   30 31 30 31  30 30 30 30  30 30 30 31  30 31 30 31   0101000000010101
000440   30 31 30 31  30 31 30 30  30 30 30 30  30 30 30 30   0101010000000000
000450   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000460   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000470   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000480   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000490   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0004A0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0004B0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0004C0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0004D0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0004E0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0004F0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000500   30 30 30 30  30 30 0D 0A  47 30 46 0D  0A 30 32 0D   000000··G0F··02·
000510   0A 50 4C 54  48 20 30 32  30 32 30 42  30 42 30 45   ·PLTH 02020B0B0E
000520   30 45 31 32  31 32 31 37  31 37 31 42  31 42 32 30   0E121217171B1B20
```

```
000530   32 30 32 34  32 34 32 36  32 36 32 38  32 38 32 39   2024242626282829
000540   32 39 32 41  32 41 32 44  32 44 32 45  32 45 32 45   292A2A2D2D2E2E2E
000550   32 45 32 44  32 44 32 43  32 43 32 41  32 41 32 37   2E2D2D2C2C2A2A27
000560   32 37 32 34  32 34 32 32  32 32 31 46  31 46 31 45   27242422221F1F1E
000570   31 45 31 44  31 44 31 44  31 44 31 43  31 43 31 42   1E1D1D1D1D1C1C1B
000580   31 42 31 39  31 39 31 36  31 36 31 34  31 34 31 32   1B19191616141412
000590   31 32 31 31  31 31 30 46  30 46 30 44  30 44 30 43   1211110F0F0D0D0C
0005A0   30 43 30 42  30 42 30 41  30 41 30 39  30 39 30 39   0C0B0B0A0A090909
0005B0   30 39 30 39  30 39 30 39  30 39 30 39  30 39 30 38   0909090909090908
0005C0   30 38 30 37  30 37 30 36  30 36 30 36  30 36 30 36   0807070606060606
0005D0   30 36 30 36  30 36 30 35  30 35 30 34  30 34 30 34   0606060505040404
0005E0   30 34 30 33  30 33 30 33  30 33 30 32  30 32 30 32   0403030303020202
0005F0   30 32 30 32  30 32 30 31  30 31 30 31  30 31 30 31   0202020101010101
000600   30 31 30 31  30 31 30 31  30 31 30 30  30 30 30 30   0101010101000000
000610   30 30 30 30  30 30 0D 0A  50 4C 54 46  20 30 30 30   000000··PLTF 000
000620   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000630   30 30 30 30  30 30 31 30  31 30 34 30  34 30 37 30   0000001010404070
000640   37 30 41 30  41 30 46 30  46 31 34 31  34 31 39 31   70A0A0F0F1414191
000650   39 31 45 31  45 32 32 32  32 32 36 32  36 32 41 32   91E1E222226262A2
000660   41 32 43 32  43 32 44 32  44 32 46 32  46 32 46 32   A2C2C2D2D2F2F2F2
000670   46 32 46 32  46 32 45 32  45 32 44 32  44 32 43 32   F2F2F2E2E2D2D2C2
000680   43 32 41 32  41 32 38 32  38 32 36 32  36 32 35 32   C2A2A28282626252
000690   35 32 32 32  32 32 30 32  30 31 46 31  46 31 44 31   5222220201F1F1D1
0006A0   44 31 42 31  42 31 39 31  39 31 38 31  38 31 36 31   D1B1B19191818161
0006B0   36 31 34 31  34 31 33 31  33 31 31 31  31 31 30 31   6141413131111101
0006C0   30 30 46 30  46 30 45 30  45 30 43 30  43 30 43 30   00F0F0E0E0C0C0C0
0006D0   43 30 42 30  42 30 41 30  41 30 39 30  39 30 38 30   C0B0B0A0A0909080
0006E0   38 30 37 30  37 30 37 30  37 30 37 30  37 30 36 30   8070707070707060
0006F0   36 30 35 30  35 30 34 30  34 30 34 30  34 30 34 30   6050504040404040
000700   34 30 34 30  34 30 34 30  34 30 33 30  33 30 33 30   4040404040303030
000710   33 30 32 30  32 30 32 30  32 30 32 30  32 30 32 30   3020202020202020
000720   32 30 32 30  32 30 32 30  32 30 31 30  31 30 31 30   2020202020101010
000730   31 30 31 30  31 30 31 30  31 30 31 30  31 30 30 30   1010101010101000
000740   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000750   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000760   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000770   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000780   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
000790   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0007A0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0007B0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0007C0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
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000840   0D 0A 54 49  4D 45 20 31  31 3A 31 32  3A 35 39 0D   ··TIME 11:12:59·
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006DF0   45 20 31 31  2F 32 32 2F  39 35 0D 0A  54 49 4D 45   E 11/22/95··TIME
006E00   20 31 31 3A  31 38 3A 30  33 0D 0A 49  44 31 20 38    11:18:03··ID1 8
006E10   39 32 35 37  32 33 30 31  38 39 0D 0A  50 49 44 31   9257230189··PID1
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006E40   43 41 53 53  50 4F 53 20  30 30 30 32  30 34 0D 0A   CASSPOS 000204··
006E50   49 44 31 53  54 41 54 55  53 20 50 0D  0A 43 2F 50   ID1STATUS P··C/P
006E60   53 54 41 54  55 53 20 50  0D 0A 47 31  37 0D 0A 30   STATUS P··G17··0
006E70   32 0D 0A 43  44 38 25 20  20 31 34 2E  31 20 20 20   2··CD8%  14.1
006E80   20 0D 0A 43  44 38 23 20  20 20 33 34  39 20 20 20    ··CD8#   349
006E90   20 0D 0A 47  31 38 0D 0A  30 35 0D 0A  56 41 4C 31    ··G18··05··VAL1
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007F10   34 30 35 30  35 30 38 30  34 30 35 30  36 30 43 30   40505080405060C0
007F20   42 30 37 30  39 30 37 30  34 30 38 30  34 30 38 30   B070907040804080
007F30   36 30 34 30  36 30 34 30  34 30 35 30  37 30 33 30   6040604040507030
007F40   34 30 33 30  36 30 36 30  37 30 39 30  39 30 43 30   403060609090C0
007F50   45 31 31 31  31 31 34 31  39 31 36 31  39 31 36 32   E111114191619162
007F60   33 32 36 32  35 31 46 32  43 32 33 32  32 31 45 32   326251F2C23221E2
007F70   30 32 34 32  36 32 39 32  33 31 46 32  31 32 36 32   0242629231F21262
007F80   35 31 34 32  33 31 42 31  44 31 41 31  37 31 42 31   514231B1D1A171B1
007F90   45 31 32 31  36 31 39 31  38 31 37 31  31 31 35 31   E121619181711151
007FA0   31 31 35 31  34 31 35 31  32 31 39 31  45 31 43 32   115141512191E1C2
007FB0   39 31 46 32  30 32 39 33  36 33 33 33  37 34 31 33   91F2029363337413
007FC0   46 33 38 34  32 34 36 34  36 34 36 34  45 34 37 34   F38424646464E474
007FD0   33 34 45 34  45 34 33 34  45 34 35 34  33 34 37 34   34E4E434E4543474
007FE0   41 33 38 33  44 34 37 34  33 34 39 34  33 33 38 33   A383D47434943383
007FF0   42 33 31 33  34 32 46 32  42 32 38 33  38 32 38 33   B31342F2B2838283
008000   32 31 46 32  36 31 46 31  45 31 42 31  45 31 44 31   21F261F1E1B1E1D1
008010   42 31 37 31  43 31 30 31  31 31 35 30  42 30 44 31   B171C1011150B0D1
008020   30 30 44 30  43 30 38 30  38 30 44 30  42 30 35 30   00D0C08080D0B050
008030   34 30 35 30  35 30 36 30  38 30 34 30  34 30 33 30   4050506080404030
008040   32 30 37 30  33 30 33 30  34 30 32 30  32 30 31 30   2070303040202010
008050   31 30 33 30  33 30 32 30  31 30 31 30  31 30 31 30   1030302010101010
008060   30 30 32 30  30 30 31 30  31 30 31 30  30 30 30 30   0020001010100000
008070   31 30 31 30  31 30 31 30  32 30 32 30  31 30 30 30   1010101020201000
008080   32 30 31 30  31 30 31 30  31 30 30 30  30 30 31 30   2010101010000010
008090   31 30 31 30  31 30 32 30  32 30 31 30  32 30 32 30   1010102020102020
0080A0   31 30 32 30  31 30 31 30  31 30 31 30  30 30 31 30   1020101010100010
0080B0   31 30 30 30  31 30 31 30  31 30 31 30  30 30 31 30   1000101010100010
0080C0   31 30 31 30  31 30 30 30  30 30 31 30  30 30 31 30   1010100000100010
0080D0   30 30 31 30  30 0D 0A 43  20 30 30 30  30 30 30 30   00100··C 0000000
0080E0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0080F0   30 30 31 30  31 30 31 30  32 30 32 30  32 30 34 30   0010101020202040
008100   36 30 36 30  36 30 41 30  38 30 39 30  43 30 43 31   606060A08090C0C1
008110   31 30 44 31  31 31 33 31  43 31 42 31  39 32 30 32   10D11131C1B19202
008120   33 32 38 32  36 32 33 32  36 32 37 32  43 32 31 32   3282623262 72C212
008130   34 32 31 32  35 32 30 31  39 31 42 31  38 31 36 31   4212520191B18161
008140   33 30 44 30  38 30 41 30  41 30 41 30  39 30 39 30   30D080A0A0A09090
008150   38 30 36 30  44 30 44 30  45 31 32 31  38 31 42 31   8060D0D0E12181B1
008160   46 32 32 32  42 33 34 33  38 34 31 34  42 34 42 34   F222B3438414B4B4
008170   42 34 45 34  39 34 45 34  45 34 45 34  45 34 43 34   B4E494E4E4E4E4C4
008180   37 33 45 34  44 34 34 33  38 33 36 32  42 33 33 32   73E4D4438362B332
008190   37 32 37 32  32 31 45 31  41 31 38 31  39 30 43 30   727221E1A18190C0
0081A0   41 30 41 30  41 30 42 30  37 30 38 30  35 30 34 30   A0A0A0B070805040
0081B0   35 30 34 30  33 30 32 30  32 30 33 30  32 30 31 30   5040302020302010
0081C0   32 30 32 30  31 30 31 30  31 30 31 30  30 30 30 30   2020101010100000
0081D0   30 30 30 30  31 30 31 30  31 30 30 30  30 30 30 30   0000101010000000
0081E0   31 30 30 30  30 30 30 30  31 30 30 30  30 30 31 30   1000000010000010
0081F0   30 30 30 30  30 30 31 30  31 30 31 30  31 30 30 30   0000001010101000
008200   30 30 31 30  31 30 30 30  31 30 30 30  31 30 30 30   0010100010001000
008210   30 30 30 30  31 30 31 30  30 30 30 30  31 30 30 30   0000101000001000
008220   30 30 30 30  31 30 30 30  30 30 30 30  31 30 30 30   0000100000001000
008230   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
```

```
008240   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008250   30 30 30 30  30 30 31 30  30 30 30 30  30 30 30 30   0000001000000000
008260   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008270   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008280   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008290   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0082A0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0082B0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0082C0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0082D0   30 30 30 30  30 30 30 30  30 0D 0A 53  20 30 30 30   000000000··S 000
0082E0   30 30 31 30  33 30 33 30  31 30 31 30  46 31 41 30   001030301010F1A0
0082F0   39 30 43 30  46 30 46 31  32 33 35 34  45 33 35 31   90C0F0F12354E351
008300   44 31 35 31  37 31 44 31  45 32 37 31  46 31 36 30   D15171D1E271F160
008310   43 30 39 30  39 30 41 30  39 30 38 30  36 30 35 30   C09090A090806050
008320   34 30 34 30  33 30 34 30  32 30 32 30  32 30 32 30   4040304020202020
008330   32 30 32 30  33 30 31 30  32 30 32 30  31 30 32 30   2020301020201020
008340   32 30 31 30  31 30 31 30  30 30 30 30  30 30 30 30   2010101000000000
008350   31 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   1000000000000000
008360   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008370   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008380   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008390   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0083A0   31 30 30 30  30 30 31 30  31 30 30 30  31 30 31 30   1000001010001010
0083B0   31 30 31 30  31 30 31 30  31 30 31 30  31 30 31 30   1010101010101010
0083C0   31 30 31 30  31 30 31 30  31 30 30 30  31 30 31 30   1010101010001010
0083D0   31 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   1000000000000000
0083E0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0083F0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008400   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008410   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008420   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008430   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008440   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008450   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008460   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008470   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008480   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
008490   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0084A0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0084B0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0084C0   30 30 30 30  30 30 30 30  30 30 30 30  30 30 30 30   0000000000000000
0084D0   30 30 30 30  30 30 30 30  30 30 30 30  30 0D 0A 0D   0000000000000···
0084E0   0A 0D 0A 2D  2D 2D 2D 2D  2D 2D 2D 2D  2D 2D 2D 2D   ···············
0084F0   2D 0D 0A 20  20 20 20 20  20 20 20 20  20 20 20 20   -··
```

APPENDIX I
3A TRANSMISSION FORMAT EXAMPLE OF 5C CONTROL

```
00000    00 00 0D 0A 0D 0A 0D 0A 0D 0A 0D 0A 0D 0A 2D 2D    ..............--
00010    2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 0D 0A 53 30    ------------..S0
00020    31 0D 0A 35 43 43 0D 0A 54 35 43 43 0D 0A 30 34    1..5CC..T5CC..04
00030    0D 0A 47 32 32 0D 0A 30 39 0D 0A 52 55 4E 23 20    ..G22..09..RUN#
00040    37 0D 0A 4C 4F 54 23 20 38 38 34 36 30 30 0D 0A    7..LOT# 884600..
00050    55 43 4E 41 4D 45 20 4E 6F 72 6D 61 6C 20 20 20    UCNAME Normal
00060    20 20 20 0D 0A 45 58 50 44 41 54 45 20 31 31 2F       ..EXPDATE 11/
00070    31 39 2F 39 33 0D 0A 44 41 54 45 20 31 31 2F 31    19/93..DATE 11/1
00080    37 2F 39 33 0D 0A 54 49 4D 45 20 31 35 3A 31 34    7/93..TIME 15:14
00090    0D 0A 4F 50 45 52 41 54 4F 52 20 4F 50 52 0D 0A    ..OPERATOR OPR..
000A0    49 51 41 50 20 31 32 33 34 35 2D 36 2D 37 38 2D    IQAP 12345-6-78-
000B0    39 0D 0A 53 48 49 46 54 20 31 0D 0A 47 32 33 0D    9..SHIFT 1..G23.
000C0    0A 30 43 0D 0A 57 42 43 20 20 20 39 2E 35 20 20    .0C..WBC   9.5
000D0    0D 0A 52 42 43 20 20 35 2E 37 35 20 20 0D 0A 48    ..RBC  5.75  ..H
000E0    47 42 20 20 31 37 2E 31 20 20 0D 0A 48 43 54 20    GB  17.1  ..HCT
000F0    20 34 39 2E 36 20 20 0D 0A 4D 43 56 20 20 38 36     49.6  ..MCV  86
00100    2E 33 20 20 0D 0A 4D 43 48 20 20 32 39 2E 37 20    .3  ..MCH  29.7
00110    20 0D 0A 4D 43 48 43 20 20 33 34 2E 34 20 20 0D     ..MCHC  34.4  .
00120    0A 52 44 57 20 20 31 33 2E 35 20 20 0D 0A 50 4C    .RDW  13.5  ..PL
00130    54 20 20 20 32 33 31 20 20 0D 0A 50 43 54 20 30    T   231  ..PCT 0
00140    2E 32 34 32 20 20 0D 0A 4D 50 56 20 20 31 30 2E    .242  ..MPV  10.
00150    35 20 20 0D 0A 50 44 57 20 20 31 34 2E 37 20 20    5  ..PDW  14.7
00160    0D 0A 47 32 34 0D 0A 30 35 0D 0A 4C 59 23 20 20    ..G24..05..LY#
00170    20 32 2E 36 20 20 0D 0A 4D 4F 23 20 20 20 30 2E     2.6  ..MO#   0.
00180    38 20 20 0D 0A 4E 45 23 20 20 20 35 2E 33 20 20    8  ..NE#   5.3
00190    0D 0A 45 4F 23 20 20 20 30 2E 38 20 20 0D 0A 42    ..EO#   0.8  ..B
001A0    41 23 20 20 20 30 2E 30 20 20 0D 0A 47 32 35 0D    A#   0.0  ..G25.
001B0    0A 30 35 0D 0A 4C 59 25 20 20 32 36 2E 39 20 20    .05..LY%  26.9
001C0    0D 0A 4D 4F 25 20 20 20 38 2E 31 20 20 0D 0A 4E    ..MO%   8.1  ..N
001D0    45 25 20 20 35 37 2E 30 20 20 0D 0A 45 4F 25 20    E%  57.0  ..EO%
001E0    20 20 37 2E 39 20 20 0D 0A 42 41 25 20 20 20 30      7.9  ..BA%   0
001F0    2E 31 20 20 0D 0A 0D 0A 0D 0A 2D 2D 2D 2D 2D 2D    .1  ..........------
00200    2D 2D 2D 2D 2D 2D 2D 2D 0D 0A 0A 0A 0A 0A 20 20    --------......
00210    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
00220    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
00230    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
00240    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
00250    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
00260    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
00270    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
00280    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
00290    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
002A0    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
002B0    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
002C0    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
002D0    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
002E0    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
002F0    20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
```

APPENDIX J
3A TRANSMISSION FORMAT EXAMPLE OF RETIC CONTROL

```
00000      00 00 0D 0A 0D 0A 0D 0A 0D 0A 0D 0A 0D 0A 2D 2D      ..............--
00010      2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 0D 0A 53 30      ------------..S0
00020      31 0D 0A 52 45 54 49 43 43 0D 0A 54 52 45 54 49      1..RETICC..TRETI
00030      43 43 0D 0A 30 32 0D 0A 47 32 32 0D 0A 30 41 0D      CC..02..G22..0A.
00040      0A 52 55 4E 23 20 34 0D 0A 4C 4F 54 23 20 34 35      .RUN# 4..LOT# 45
00050      30 31 32 0D 0A 55 43 4E 41 4D 45 20 4C 65 76 65      012..UCNAME Leve
00060      6C 20 49 49 20 20 20 20 0D 0A 45 58 50 44 41 54      l II    ..EXPDAT
00070      45 20 31 32 2F 31 30 2F 39 33 0D 0A 44 41 54 45      E 12/10/93..DATE
00080      20 31 31 2F 31 31 2F 39 33 0D 0A 54 49 4D 45 20       11/11/93..TIME
00090      31 34 3A 35 35 0D 0A 4F 50 45 52 41 54 4F 52 20      14:55..OPERATOR
000A0      4F 50 52 0D 0A 49 51 41 50 20 34 35 36 37 38 2D      OPR..IQAP 45678-
000B0      39 2D 30 31 2D 32 0D 0A 53 48 49 46 54 20 30 0D      9-01-2..SHIFT 0.
000C0      0A 52 52 42 43 20 20 34 2E 35 30 0D 0A 47 32 36      .RRBC  4.50..G26
000D0      0D 0A 30 35 0D 0A 52 45 54 25 20 20 31 2E 35 33      ..05..RET%  1.53
000E0      20 20 0D 0A 52 45 54 23 20 2E 30 36 39 31 20 20        ..RET# .0691
000F0      0D 0A 4D 52 56 20 31 30 39 2E 33 20 20 0D 0A 4D      ..MRV 109.3  ..M
00100      49 20 20 20 30 2E 33 20 20 0D 0A 4F 54 48 45 52      I   0.3  ..OTHER
00110      20 4D 52 56 20 61 6E 64 20 4D 49 20 70 61 72 61       MRV and MI para
00120      6D 65 74 65 72 73 20 61 72 65 20 4E 6F 74 20 66      meters are Not f
00130      6F 72 20 44 69 61 67 6E 6F 73 74 69 63 20 55 73      or Diagnostic Us
00140      65 2E 0D 0A 0D 0A 0D 0A 2D 2D 2D 2D 2D 2D 2D 2D      e.........------
00150      2D 2D 2D 2D 2D 2D 0D 0A 0A 0A 0A 0A 20 20 20 20      ------........
00160      20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
00170      20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
00180      20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
00190      20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
001A0      20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
001B0      20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
001C0      20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
001D0      20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
001E0      20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
001F0      20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
```

APPENDIX K
3A TRANSMISSION FORMAT EXAMPLE OF LATEX CONTROL

```
00000      20 20 0D 0A 0D 0A 0D 0A 0D 0A 0D 0A 0D 0A 2D 2D        ..............--
00010      2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 0D 0A 53 30      ------------..S0
00020      31 0D 0A 4C 41 54 45 58 43 0D 0A 54 4C 41 54 45      1..LATEXC..TLATE
00030      58 43 0D 0A 30 32 0D 0A 47 31 46 0D 0A 30 36 0D      XC..02..G1F..06.
00040      0A 56 5F 4D 4E 20 20 32 38 2E 38 20 20 0D 0A 43      .V_MN  28.8  ..C
00050      5F 4D 4E 20 20 32 38 2E 39 20 20 0D 0A 53 5F 4D      _MN  28.9  ..S_M
00060      4E 20 20 38 33 2E 37 20 4C 0D 0A 56 5F 43 56 20      N  83.7 L..V_CV
00070      20 31 32 2E 30 20 48 0D 0A 43 5F 43 56 20 20 31       12.0 H..C_CV  1
00080      32 2E 38 20 48 0D 0A 53 5F 43 56 20 20 20 37 2E      2.8 H..S_CV   7.
00090      39 20 20 0D 0A 47 32 32 0D 0A 30 33 0D 0A 44 41      9  ..G22..03..DA
000A0      54 45 20 31 31 2F 32 39 2F 39 33 0D 0A 54 49 4D      TE 11/29/93..TIM
000B0      45 20 30 39 3A 31 38 0D 0A 49 51 41 50 20 31 32      E 09:18..IQAP 12
000C0      33 34 35 2D 36 2D 37 38 2D 39 0D 0A 0D 0A 0D 0A      345-6-78-9......
000D0      2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 0D 0A      --------------..
000E0      0A 0A 0A 0A 20 20 20 20 20 20 20 20 20 20 20 20      ....
000F0      20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20
00100      1A                                                  .
```

APPENDIX L
3A TRANSMISSION FORMAT EXAMPLE OF CD4 CONTROL

```
000000   0D 0A 0D 0A  0D 0A 0D 0A  0D 0A 0D 0A  2D 2D 2D 2D   ................
000010   2D 2D 2D 2D  2D 2D 2D 2D  2D 2D 0D 0A  53 30 31 0D   ------------S01.
000020   0A 43 44 34  43 0D 0A 54  43 44 34 43  0D 0A 30 32   .CD4C..TCD4C..02
000030   0D 0A 47 32  32 0D 0A 30  42 0D 0A 52  55 4E 23 20   ..G22..0B..RUN#
000040   31 0D 0A 4C  4F 54 23 20  32 33 34 35  36 37 0D 0A   1..LOT# 234567..
000050   55 43 4E 41  4D 45 20 43  44 34 20 4E  4F 52 4D 41   UCNAME CD4 NORMA
000060   4C 20 20 0D  0A 45 58 50  44 41 54 45  20 31 32 2F   L  ..EXPDATE 12/
000070   33 31 2F 39  35 0D 0A 44  41 54 45 20  31 31 2F 30   31/95..DATE 11/0
000080   37 2F 39 35  0D 0A 54 49  4D 45 20 31  30 3A 34 34   7/95..TIME 10:44
000090   3A 33 39 0D  0A 4F 50 45  52 41 54 4F  52 20 4F 2E   :39..OPERATOR O.
0000A0   56 0D 0A 49  51 41 50 20  31 32 33 34  35 2D 36 2D   V..IQAP 12345-6-
0000B0   37 38 2D 39  0D 0A 53 48  49 46 54 20  30 0D 0A 43   78-9..SHIFT 0..C
0000C0   41 53 53 50  4F 53 20 30  30 30 32 30  36 0D 0A 52   ASSPOS 000206..R
0000D0   57 42 43 20  20 20 36 2E  36 0D 0A 47  32 39 0D 0A   WBC   6.6..G29..
0000E0   30 32 0D 0A  43 44 34 25  20 20 33 37  2E 37 20 20   02..CD4%  37.7
0000F0   0D 0A 43 44  34 23 20 20  32 34 38 37  20 20 0D 0A   ..CD4#  2487  ..
000100   0D 0A 0D 0A  2D 2D 2D 2D  2D 2D 2D 2D  2D 2D 2D 2D   ----------------
000110   2D 2D 0D 0A  20 20 20 20  20 20 20 20  20 20 20 20   ----
000120   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
000130   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
000140   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
000150   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
000160   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
000170   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
000180   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
000190   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
0001A0   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
0001B0   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
0001C0   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
0001D0   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
0001E0   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
0001F0   20 20 20 20  20 20 20 20  20 20 20 20  20 20 20 20
```

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